BIRTH AND DEATH STATISTICS BY HEALTH UNITS OF ALBERTA

1989

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BIRTH AND DEATH STATISTICS
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GENERAL FRAMEWORK

This is the seventh annual report dealing with natality and mortality patterns in Alberta, observed at the health unit level. This volume contains birth, infant mortality, and death statistics and related indices for the year 1989 for Alberta, disaggregated by the 27 Health Units, to the extent that this is possible from Vital Statistics data. All the birth and death data used in the preparation of this report originated with Alberta Vital Statistics. It is hoped this information will prove useful to those involved in planning at both the health unit and provincial levels. The report is divided into four chapters, dealing with births, stillbirths and infant mortality, deaths in the male population, and deaths in the female population, respectively.

By considering births and deaths on a health unit basis, this report acknowledges the differences that exist from one area of the province to another. It is not always possible to offer an explanation as to why such variation exists, and no attempt has been made in this volume to provide one. Any explanation would need to be based on a comprehensive understanding of the various demographic and socio-economic characteristics of the health units and this knowledge is most readily available at the community level.

In data format this report closely resembles the sixth report published in April, 1990[1]. The emphasis is on natality and mortality of individual health units as observed in 1989.

The point of view has been adopted that the situation for Alberta is mainly relevant in so far as it provides a convenient standard for gauging patterns in this province. To that end, all age-standardized rates in this report have been standardized on Alberta population in 1989.

As each new demographic indicator is introduced it is accompanied by the corresponding background material or mathematical formula. Appendices A and B give the details of the demographic methods used.

CHAPTER CONTENTS

Each chapter begins with a description of the relevant population according to age groups, and follows with a series of tables and figures dealing with either births or deaths. The latter are organized according to a definite format. Within each chapter, pages are numbered consecutively. Tables and figures will be identified by referring to the corresponding page number.

BIRTH AND DEATH STATISTICS

A proper interpretation of the tables and figures in the pages that follow requires an understanding of some of the features of the Alberta Vital Statistics registration and reporting system. As each birth or death is registered, Alberta Vital Statistics assigns the vital event to a health unit on the basis of the registrant's place of usual residence, provided, of course, that the individual involved is an Albertan. This may or may not be the health unit where the vital event took place.

Alberta Vital Statistics also registers births and deaths involving residents of other provinces and countries, but these will not be considered here. By the same token, if a resident of Alberta gives birth or dies while outside this province, the registration will not be known to Alberta Vital Statistics. This results in a small degree of undercounting of vital events involving Albertans, however, this shortfall is not large (approximately 433 Live births (1.0%), 7

Stillbirths (2.7%), 14 Infant deaths (4.4%) and 352 deaths (2.5%) in 1989 [2].

An exception to the above method of reporting has to do with residents of certain Indian reservations. Because of a special arrangement between the neighbouring health units and Alberta Vital Statistics, births and deaths identifiable as involving residents of these reservations are not assigned to the health unit in question, but rather given their own identifiers[3,4]. This makes it impossible to assign these vital events to a health unit without going back to the original registrations. Consequently, these statistics have been excluded from the present report. However, data from Alberta Vital Statistics indicate that the resulting undercounting is very small.

Alberta Vital Statistics publishes an annual report containing, along with other information, birth and death statistics. In theory, the entries in the 1989 report should coincide exactly with those given here. However, certain discrepancies can be found. For example, Alberta Vital Statistics sets the total number of deaths (Alberta residents only) at 13,642 which is to be compared to 13,530 (excluding Indian Reservations) computed from Table 3.3 and Table 4.3 in this report. This difference is partially due to the fact that in this report only those cases with specific Health Unit codes are included. Other similar discrepancies may occur because the Alberta Vital Statistics system is a dynamic one, with registrations being updated, late registrations being filed and similar data modifications made continuously. These differences are not very important for the computation of health indices used in the report. More specifically, the health unit related rates provided in this report are unlikely to change.

POPULATION ESTIMATES

Since this report is concerned with births and deaths it is necessary to have population estimates in order to compute rates.

In certain health units, up-to-date enumerations are available as they have been included in a municipal census. However, in order to have a uniform method applicable to all health units, it was decided to estimate all 1989 health unit population by projecting the health unit enumerations from the national census of 1986. The details of the method of projection are given in Appendix A.

SMALL AREA STATISTICS

The preceding sections dealt with some of the characteristics of the statistics that have been used in this report. A related consideration has to do with the problem of small area statistics [5,6]. This refers to the difficulties, inherent in the analysis of statistics, arising out of relatively sparsely populated areas. Because of the small numbers involved, indices computed from such statistics tend to be subject to random fluctuation. In the context of the present report, differences that appear to exist between one health unit and the next may be partly due to chance variation .

CHAPTER 1

LIVE BIRTHS

1989

DESCRIPTION OF TABLES

Chapter 1 lists live births by Alberta health units for the year 1989.

Table 1.1 gives population estimates for females in the reproductive years (10-49) by five-year age groups, computed using the method described in Appendix A. Note that in this table the far right column gives the total number of females in each health unit and that the bottom row gives the health unit total for each age group. Also, in each table, "Alberta" is used to refer to health unit totals and actual provincial figures may slightly differ.

Table 1.2 is derived directly from Table 1.1, and gives the percent of the population in each health unit falling in each of the age groups in the range 10-49. Due to rounding the row totals may not sum up to 100.

Table 1.3 gives the number of live births by age group and health unit. Once again the total for each health unit and the grand total are provided.

Table 1.4 gives the age-specific live birth rates (per 1,000 females). These rates, sometimes called fertility rates, are defined by

$$\frac{\text{number of live births to women in age group}}{\text{number of women in age group}} \times 1{,}000 \, .$$

Although not shown, it is possible to assign confidence intervals to each of the rates in this table along the lines of Table 1.5. The method of computation is described in Appendix B. Because of the small numbers involved in some of the health units, the age-specific rates in this table would be expected to have rather wide confidence intervals. For this reason Table 1.4 should be interpreted with caution, especially when health units are being compared.

Table 1.5 has a number of indices related to the age-standardized live birth rates for the year 1989. The technique of age-standardization is discussed in Appendix B. In the present case, rates have been standardized to the 1989 Alberta female population, ages 10 to 49. This means that each of the age-standardized rates, appearing in the first column of the table (where they are referred to simply as rates), is the live birth rate that would have been observed in each health unit in 1989 if the age distribution of women in the reproductive years in the health unit had been precisely the same as that observed in Alberta as a whole in the year 1989. This adjustment for differing age distributions (see Table 1.2) corrects for a potential source of artifactual error.

Associated with each of the (age-standardized) rates is a 95% confidence interval, with lower and upper limits, shown in columns two and three. For details of the method of computation see Appendix B. These numbers bound the observed rate from below and above, respectively, and thereby give a range of numbers which include the true underlying rate with a 95% confidence level. The observed rate is simply one manifestation of the true underlying rate, which cannot be known with 100% confidence because of random variation. This means that the true underlying rate could be as small as the lower bound or as large as the upper bound. Typically, the larger the population in question, the narrower will be the confidence interval. Because they indicate the reliability of the observed rate, the lower and upper confidence limits should always be considered along with the rate.

In the fourth column the rates (excluding that for Alberta) have been ranked from 1 to 27, with 1 for the largest rate and 27 for the smallest.

The fifth column gives ratios, computed by dividing the rate for each health unit by the Alberta rate. This gives a measure of the relative magnitude of the rate for each health unit compared to Alberta as a whole. The ranks and ratios are simply different ways of looking at the rates in column one.

The final column records the results of statistical testing for a difference between the rate for each of the health units and the rate for Alberta. The principles involved are described in Appendix B. If the health unit rate was found to be larger than that for Alberta, and statistically significantly so, then a "Yes" was entered next to the health unit. If the health unit was observed to be less than the Alberta rate, or larger but not statistically significantly larger, then a dot was entered. Another approach to statistical testing would have involved looking for significant departures of the health unit rates from the Alberta rate, whether higher or lower, and not just higher as in this report. However, this would have meant using a test with less sensitivity to detect higher than average health unit rates. Since these are the departures which tend to be of most interest (especially in the case of death rates), the present approach was adopted.

It must be reiterated that statistical significance is purely a property of numbers; as a concept it has no biological, demographic or social content. Consequently, even if two rates are determined to be different in a formal statistical sense, it is another matter as to whether or not they are different in a biological (or other) sense. This is a judgement to be made by the informed reader; it is outside the realm of statistical testing.

Figure 1.6 is a map of health units with the ranks from Table 1.5 inscribed. This provides a convenient method of searching for cluster of low or high ranks.

Tables 1.7 to 1.9 give the number of live births by birth order, where "first order" means the first live birth for the woman and similarly for higher orders of births.

Table 1.10 and Table 1.11 give a breakdown of live births by weight category.

Tables 1.12 to 1.14, and Figure 1.15 are similar in layout (and interpretation) to Tables 1.3, 1.4, 1.5 and Figure 1.6, respectively. Here attention is restricted to live births to women who were single (that is, not legally married) at the time of birth.

Table 1.16 is computed directly from Table 1.12 and gives the percent of the live births occurring in each age group. Due to rounding, row totals may not add up to 100.

Tables 1.17 and 1.18, and Figure 1.19 are formatted along the lines of Tables 1.3, Tables 1.5 and Figure 1.6, respectively. However, here a single age group, the 15-19 year olds, is considered in detail. Consequently, the age-specific and age-standardized rates coincide.

Tables 1.20 and 1.21, and Figure 1.22 consider the live births and birth rates to single teenage mothers.

1.1

NUMBER IN POPULATION

FEMALES IN CHILD BEARING AGE GROUPS (10-49), 1989

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	1906	1951	1663	1923	2074	1872	1778	1349	14516
ALBERTA WEST CENTRAL	1606	1503	1475	1837	1897	1504	1218	1110	12150
ATHABASCA	1448	1389	1101	1229	1227	1080	977	740	9191
BANFF NATIONAL PARK	153	387	720	491	380	328	233	161	2853
BARONS EUREKA-WERNER	1740	1647	1202	1474	1517	1396	1231	957	11164
BIG COUNTRY	408	463	389	426	455	407	374	260	3182
CALGARY	20013	22113	28340	36959	35382	29024	23546	17149	212526
CHINOOK	1667	1641	1172	1465	1494	1384	1204	937	10964
DRUMHELLER	1307	1340	998	1238	1374	1209	1013	761	9240
EDMONTON	16439	20106	28704	32689	28935	22169	18847	15247	183136
FOOTHILLS	1351	1201	818	1218	1496	1468	1307	828	9687
FORT MCMURRAY	1694	1585	1551	2223	2174	1877	1265	644	13013
HIGH LEVEL-FORT VERMILION	839	699	628	642	489	366	330	270	4263
JASPER NATIONAL PARK	88	136	308	251	186	123	96	79	1267
LEDUC-STRATHCONA	5037	4557	2761	3749	5212	5607	4806	3050	34779
LETHBRIDGE	2020	2163	2468	2743	2777	2382	1945	1536	18034
MINBURN-VERMILION	1489	1467	1426	1637	1656	1386	1250	870	11181
MOUNT VIEW	2353	2120	1664	2563	3216	2879	2186	1560	18541
NORTH EASTERN ALBERTA	2001	1929	1951	2111	1860	1603	1473	1037	13965
PEACE RIVER	1759	1537	1312	1586	1562	1311	1177	944	11188
RED DEER REGIONAL	4484	4528	4951	5855	5678	4706	3861	3070	37133
SOUTH EASTERN ALBERTA	2798	2746	2881	3402	3338	2883	2402	1779	22229
SOUTH PEACE	2720	2593	2622	3181	3128	2387	2074	1475	20180
STONY PLAIN-LAC STE. ANNE	3081	2384	1885	2756	3331	3079	2507	1609	20632
STURGEON	4314	3724	2861	3795	4621	4730	3768	2587	30400
VEGREVILLE	1042	1026	684	856	1089	1051	895	740	7383
WETOKA	1322	1349	1159	1438	1525	1357	1208	944	10302
ALBERTA	85079	88284	97694	119737	118073	99568	82971	61693	753099

AGE DISTRIBUTIONS (IN %)

FEMALES IN CHILD BEARING AGE GROUPS (10-49), 1989

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49
ALBERTA EAST CENTRAL	13.1	13.4	11.5	13.2	14.3	12.9	12.2	9.3
ALBERTA WEST CENTRAL	13.2	12.4	12.1	15.1	15.6	12.4	10.0	9.1
ATHABASCA	15.8	15.1	12.0	13.4	13.4	11.8	10.6	8.1
BANFF NATIONAL PARK	5.4	13.6	25.2	17.2	13.3	11.5	8.2	5.6
BARONS EUREKA-WERNER	15.6	14.8	10.8	13.2	13.6	12.5	11.0	8.6
BIG COUNTRY	12.8	14.6	12.2	13.4	14.3	12.8	11.8	8.2
CALGARY	9.4	10.4	13.3	17.4	16.6	13.7	11.1	8.1
CHINOOK	15.2	15.0	10.7	13.4	13.6	12.6	11.0	8.5
DRUMHELLER	14.1	14.5	10.8	13.4	14.9	13.1	11.0	8.2
EDMONTON	9.0	11.0	15.7	17.8	15.8	12.1	10.3	8.3
FOOTHILLS	13.9	12.4	8.4	12.6	15.4	15.2	13.5	8.5
FORT MCMURRAY	13.0	12.2	11.9	17.1	16.7	14.4	9.7	4.9
HIGH LEVEL-FORT VERMILION	19.7	16.4	14.7	15.1	11.5	8.6	7.7	6.3
JASPER NATIONAL PARK	6.9	10.7	24.3	19.8	14.7	9.7	7.6	6.2
LEDUC-STRATHCONA	14.5	13.1	7.9	10.8	15.0	16.1	13.8	8.8
LETHBRIDGE	11.2	12.0	13.7	15.2	15.4	13.2	10.8	8.5
MINBURN-VERMILION	13.3	13.1	12.8	14.6	14.8	12.4	11.2	7.8
MOUNT VIEW	12.7	11.4	9.0	13.8	17.3	15.5	11.8	8.4
NORTH EASTERN ALBERTA	14.3	13.8	14.0	15.1	13.3	11.5	10.5	7.4
PEACE RIVER	15.7	13.7	11.7	14.2	14.0	11.7	10.5	8.4
RED DEER REGIONAL	12.1	12.2	13.3	15.8	15.3	12.7	10.4	8.3
SOUTH EASTERN ALBERTA	12.6	12.4	13.0	15.3	15.0	13.0	10.8	8.0
SOUTH PEACE	13.5	12.8	13.0	15.8	15.5	11.8	10.3	7.3
STONY PLAIN-LAC STE. ANNE	14.9	11.6	9.1	13.4	16.1	14.9	12.2	7.8
STURGEON	14.2	12.3	9.4	12.5	15.2	15.6	12.4	8.5
VEGREVILLE	14.1	13.9	9.3	11.6	14.8	14.2	12.1	10.0
WETOKA	12.8	13.1	11.3	14.0	14.8	13.2	11.7	9.2
ALBERTA	11.3	11.7	13.0	15.9	15.7	13.2	11.0	8.2

1.3

NUMBER OF LIVE BIRTHS, 1989

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	1	44	202	324	158	43	0	0	772
ALBERTA WEST CENTRAL	0	75	224	288	130	36	5	0	758
ATHABASCA	1	111	232	227	80	18	3	1	673
BANFF NATIONAL PARK	0	4	14	26	28	9	2	0	83
BARONS EUREKA-WERNER	0	50	202	310	170	43	8	0	783
BIG COUNTRY	0	7	44	89	40	5	0	0	185
CALGARY	5	576	2124	4520	3762	998	115	6	12106
CHINOOK	2	40	151	201	138	51	2	1	586
DRUMHELLER	1	30	140	207	122	26	2	0	528
EDMONTON	4	740	2289	3919	2668	794	82	4	10500
FOOTHILLS	0	18	87	215	154	38	8	0	520
FORT MCMURRAY	2	73	204	252	141	33	3	0	708
HIGH LEVEL-FORT VERMILION	0	77	145	136	60	25	6	1	450
JASPER NATIONAL PARK	0	2	11	26	21	5	0	0	65
LEDUC-STRATHCONA	0	77	235	656	453	121	7	0	1549
LETHBRIDGE	2	84	208	331	216	69	5	0	915
MINBURN-VERMILION	0	24	90	176	66	18	2	0	376
MOUNT VIEW	1	38	201	392	335	90	9	0	1066
NORTH EASTERN ALBERTA	1	123	276	360	165	34	4	0	963
PEACE RIVER	2	113	258	259	125	37	6	0	800
RED DEER REGIONAL	0	192	620	802	413	111	7	0	2145
SOUTH EASTERN ALBERTA	1	95	317	468	257	48	5	0	1191
SOUTH PEACE	3	119	310	409	205	33	5	1	1085
STONY PLAIN-LAC STE. ANNE	0	79	281	450	251	65	4	1	1131
STURGEON	0	110	310	571	417	99	16	0	1523
VEGREVILLE	1	36	104	142	76	26	1	0	386
WETOKA	0	47	165	218	127	35	1	0	593
ALBERTA	27	2984	9444	15974	10778	2910	308	15	42440

1.4

AGE-SPECIFIC LIVE BIRTH RATES (PER 1,000 FEMALES), 1989

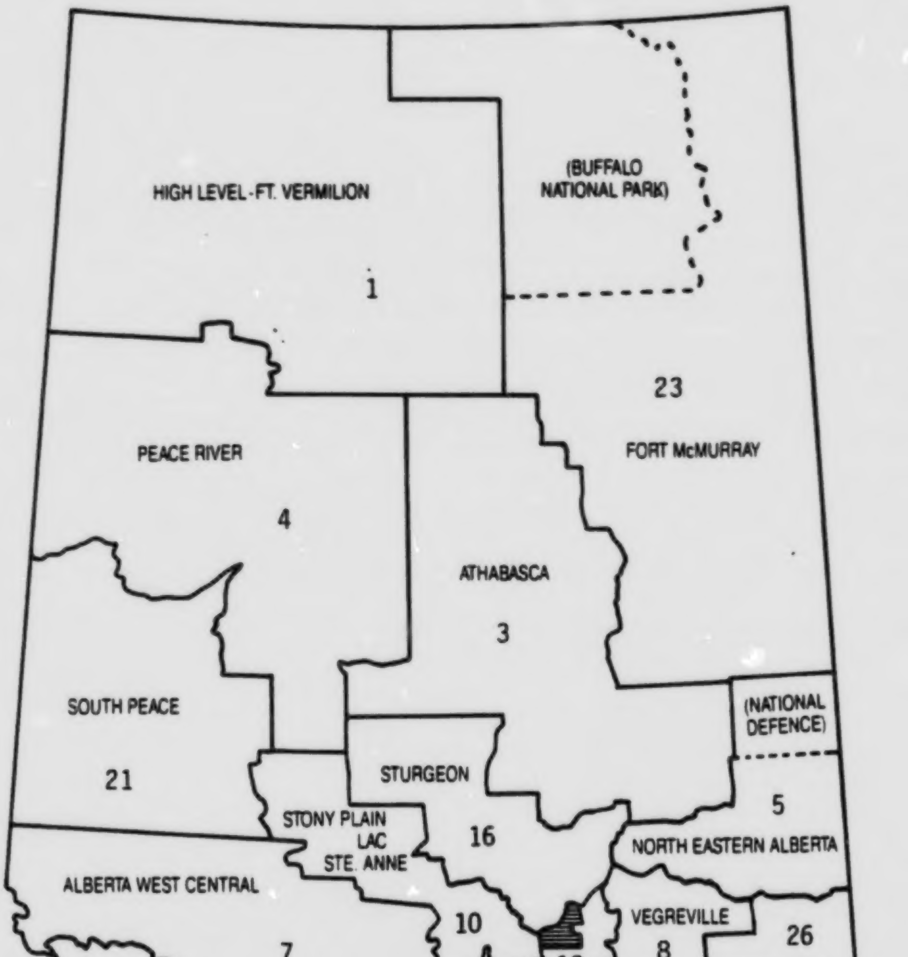
HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49
ALBERTA EAST CENTRAL	0.5	22.6	121.5	168.5	76.2	23.0	0.0	0.0
ALBERTA WEST CENTRAL	0.0	49.9	151.9	156.8	68.5	23.9	4.1	0.0
ATHABASCA	0.7	79.9	210.7	184.7	65.2	16.7	3.1	1.4
BANFF NATIONAL PARK	0.0	10.3	19.4	53.0	73.7	27.4	8.6	0.0
BARONS EUREKA-WERNER	0.0	30.4	168.1	210.3	112.1	30.8	6.5	0.0
BIG COUNTRY	0.0	15.1	113.1	208.9	87.9	12.3	0.0	0.0
CALGARY	0.2	26.0	74.9	122.3	106.3	34.4	4.9	0.3
CHINOOK	1.2	24.4	128.8	137.2	92.4	36.8	1.7	1.1
DRUMHELLER	0.8	22.4	140.3	167.2	88.8	21.5	2.0	0.0
EDMONTON	0.2	36.8	79.7	119.9	92.2	35.8	4.4	0.3
FOOTHILLS	0.0	15.0	106.4	176.5	102.9	25.9	6.1	0.0
FORT MCMURRAY	1.2	46.1	131.5	113.4	64.9	17.6	2.4	0.0
HIGH LEVEL-FORT VERMILION	0.0	110.2	230.9	211.8	122.7	68.3	18.2	3.7
JASPER NATIONAL PARK	0.0	14.7	35.7	103.6	112.9	40.7	0.0	0.0
LEDUC-STRATHCONA	0.0	16.9	85.1	175.0	86.9	21.6	1.5	0.0
LETHBRIDGE	1.0	38.8	84.3	120.7	77.8	29.0	2.6	0.0
MINBURN-VERMILION	0.0	16.4	63.1	107.5	39.9	13.0	1.6	0.0
MOUNT VIEW	0.4	17.9	120.8	152.9	104.2	31.3	4.1	0.0
NORTH EASTERN ALBERTA	0.5	63.8	141.5	170.5	88.7	21.2	2.7	0.0
PEACE RIVER	1.1	73.5	196.6	163.3	80.0	28.2	5.1	0.0
RED DEER REGIONAL	0.0	42.4	125.2	137.0	72.7	23.6	1.8	0.0
SOUTH EASTERN ALBERTA	0.4	34.6	110.0	137.6	77.0	16.6	2.1	0.0
SOUTH PEACE	1.1	45.9	118.2	128.6	65.5	13.8	2.4	0.7
STONY PLAIN-LAC STE. ANNE	0.0	33.1	149.1	163.3	75.4	21.1	1.6	0.6
STURGEON	0.0	29.5	108.4	150.5	90.2	20.9	4.2	0.0
VEGREVILLE	1.0	35.1	152.0	165.9	69.8	24.7	1.1	0.0
WETOKA	0.0	34.8	142.4	151.6	83.3	25.8	0.8	0.0
ALBERTA	0.3	33.8	96.7	133.4	91.3	29.2	3.7	0.2

1.5

AGE-STANDARDIZED LIVE BIRTH RATES (PER 1,000 FEMALES), 1989

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	60.2	56.0	64.5	15	1.07	YES
ALBERTA WEST CENTRAL	64.8	60.2	69.5	7	1.15	YES
ATHABASCA	79.0	73.0	85.0	3	1.40	YES
BANFF NATIONAL PARK	28.3	22.0	34.5	27	0.50	.
BARONS EUREKA-WARNER	81.2	75.4	86.9	2	1.44	YES
BIG COUNTRY	65.1	55.7	74.5	6	1.15	YES
CALGARY	54.0	53.1	55.0	20	0.96	.
CHINOOK	61.1	56.2	66.1	14	1.08	YES
DRUMHELLER	64.5	59.0	70.0	9	1.14	YES
EDMONTON	53.4	52.4	54.5	22	0.95	.
FOOTHILLS	63.9	58.3	69.4	11	1.13	YES
FORT MCMURRAY	53.4	49.4	57.3	23	0.95	.
HIGH LEVEL-FORT VERMILION	107.1	97.0	117.3	1	1.90	YES
JASPER NATIONAL PARK	45.9	34.4	57.4	25	0.81	.
LEDUC-STRATHCONA	57.5	54.6	60.4	18	1.02	.
LETHBRIDGE	51.1	47.8	54.4	24	0.91	.
MINBURN-VERMILION	35.3	31.8	38.9	26	0.63	.
MOUNT VIEW	63.1	59.2	66.9	13	1.12	YES
NORTH EASTERN ALBERTA	70.0	65.6	74.5	5	1.24	YES
PEACE RIVER	77.1	71.7	82.4	4	1.37	YES
RED DEER REGIONAL	57.7	55.3	60.2	17	1.02	.
SOUTH EASTERN ALBERTA	54.7	51.6	57.9	19	0.97	.
SOUTH PEACE	53.7	50.5	56.9	21	0.95	.
STONY PLAIN-LAC STE. ANNE	64.0	60.2	67.8	10	1.13	YES
STURGEON	58.8	55.8	61.8	16	1.04	.
VEGREVILLE	64.7	58.1	71.2	8	1.15	YES
WETOKA	63.2	58.1	68.3	12	1.12	YES
ALBERTA	56.4	55.8	56.9			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
1
(BUFFALO NATIONAL PARK)
23
FORT McMURRAY
PEACE RIVER
4
ATHABASCA
3
SOUTH PEACE
21
(NATIONAL DEFENCE)
STURGEON
16
5
NORTH EASTERN ALBERTA
STONY PLAIN LAC STE. ANNE
ALBERTA WEST CENTRAL
7
10
18
LEDUC- STRATHCONA
VEGREVILLE
8
26
MINBURN VERMILION
25
JASPER
12
WETOKA
15
ALBERTA EAST CENTRAL
RED DEER
17
22
EDMONTON
BANFF
27
13
MOUNT VIEW
DRUMHELLER
9
6
BIG COUNTRY
20
CALGARY
FOOTHILLS
11
SOUTHEASTERN ALBERTA
19
BARONS EUREKA WARNER
2
14
CHINOOK
24
LETHBRIDGE

Alberta
HEALTH

NUMBER OF FIRST ORDER LIVE BIRTHS, 1989

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	1	38	106	84	17	6	0	0	252
ALBERTA WEST CENTRAL	0	67	108	74	23	6	0	0	278
ATHABASCA	1	80	85	53	13	2	0	0	234
BANFF NATIONAL PARK	0	4	7	17	11	3	0	0	42
BARONS EUREKA-WERNER	0	43	96	75	28	5	1	0	248
BIG COUNTRY	0	7	24	34	8	2	0	0	75
CALGARY	5	486	1235	2078	1177	249	24	2	5256
CHINOOK	2	34	67	55	27	5	0	0	190
DRUMHELLER	1	25	60	64	19	5	0	0	174
EDMONTON	4	566	1243	1582	765	165	18	2	4345
FOOTHILLS	0	17	45	64	35	5	3	0	169
FORT MCMURRAY	2	61	99	93	30	7	0	0	292
HIGH LEVEL-FORT VERMILION	0	58	52	23	3	2	0	0	138
JASPER NATIONAL PARK	0	2	8	8	8	2	0	0	28
LEDUC-STRATHCONA	0	68	111	205	94	22	1	0	501
LETHBRIDGE	2	73	115	123	47	15	1	0	376
MINBURN-VERMILION	0	21	49	49	22	2	0	0	143
MOUNT VIEW	1	32	110	157	80	21	1	0	402
NORTH EASTERN ALBERTA	1	88	119	111	29	3	0	0	351
PEACE RIVER	2	84	95	63	17	1	0	0	262
RED DEER REGIONAL	0	158	320	249	96	18	0	0	841
SOUTH EASTERN ALBERTA	1	81	169	150	40	5	1	0	447
SOUTH PEACE	3	89	155	126	44	2	0	0	419
STONY PLAIN-LAC STE. ANNE	0	66	132	142	46	8	0	0	394
STURGEON	0	88	151	190	86	25	0	0	540
VEGREVILLE	1	28	53	43	11	1	0	0	137
WETOKA	0	34	77	55	22	7	0	0	195
ALBERTA	27	2398	4891	5967	2798	594	50	4	16729

1.8

NUMBER OF SECOND ORDER LIVE BIRTHS, 1989

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	6	74	132	43	13	0	0	268
ALBERTA WEST CENTRAL	0	7	87	131	47	8	0	0	280
ATHABASCA	0	25	78	71	22	3	1	0	200
BANFF NATIONAL PARK	0	0	6	7	10	4	1	0	28
BARONS EUREKA-WERNER	0	6	72	98	40	5	1	0	222
BIG COUNTRY	0	0	18	29	10	2	0	0	59
CALGARY	0	80	680	1671	1563	385	38	2	4419
CHINOOK	0	5	53	60	35	11	0	0	164
DRUMHELLER	0	4	52	80	34	5	0	0	175
EDMONTON	0	158	750	1491	1086	298	20	0	3803
FOOTHILLS	0	1	32	90	57	10	0	0	190
FORT MCMURRAY	0	10	70	91	60	8	0	0	239
HIGH LEVEL-FORT VERMILION	0	15	44	28	6	1	0	0	94
JASPER NATIONAL PARK	0	0	3	14	11	1	0	0	29
LEDUC-STRATHCONA	0	8	97	286	184	41	3	0	619
LETHBRIDGE	0	11	61	132	80	25	1	0	310
MINBURN-VERMILION	0	2	28	67	11	2	0	0	110
MOUNT VIEW	0	6	66	152	123	28	3	0	376
NORTH EASTERN ALBERTA	0	29	118	135	44	8	0	0	334
PEACE RIVER	0	27	96	102	39	7	0	0	271
RED DEER REGIONAL	0	30	225	330	134	34	1	0	754
SOUTH EASTERN ALBERTA	0	12	111	194	86	9	0	0	412
SOUTH PEACE	0	22	111	151	74	14	0	1	373
STONY PLAIN-LAC STE. ANNE	0	11	105	175	81	20	0	0	392
STURGEON	0	20	118	217	150	27	4	0	536
VEGREVILLE	0	8	41	54	23	11	0	0	137
WETOKA	0	13	56	95	35	6	0	0	205
ALBERTA	0	516	3250	6083	4088	986	73	3	14999

1.9

NUMBER OF THIRD OR HIGHER ORDER LIVE BIRTHS, 1989

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	0	22	108	98	24	0	0	252
ALBERTA WEST CENTRAL	0	1	29	83	60	22	5	0	200
ATHABASCA	0	6	69	103	45	13	2	1	239
BANFF NATIONAL PARK	0	0	1	2	7	2	1	0	13
BARONS EUREKA-WERNER	0	1	34	137	102	33	6	0	313
BIG COUNTRY	0	0	2	26	22	1	0	0	51
CALGARY	0	10	209	771	1022	364	53	2	2431
CHINOOK	0	1	31	86	76	35	2	1	232
DRUMHELLER	0	1	28	63	69	16	2	0	179
EDMONTON	0	16	296	846	817	331	44	2	2352
FOOTHILLS	0	0	10	61	62	23	5	0	161
FORT MCMURRAY	0	2	35	68	51	18	3	0	177
HIGH LEVEL-FORT VERMILION	0	4	49	85	51	22	6	1	218
JASPER NATIONAL PARK	0	0	0	4	2	2	0	0	8
LEDUC-STRATHCONA	0	1	27	165	175	58	3	0	429
LETHBRIDGE	0	0	32	76	89	29	3	0	229
MINBURN-VERMILION	0	1	13	60	33	14	2	0	123
MOUNT VIEW	0	0	27	83	132	41	5	0	288
NORTH EASTERN ALBERTA	0	6	39	114	92	23	4	0	278
PEACE RIVER	0	2	67	94	69	29	6	0	267
RED DEER REGIONAL	0	4	75	223	183	59	6	0	550
SOUTH EASTERN ALBERTA	0	2	37	124	131	34	4	0	332
SOUTH PEACE	0	8	44	132	87	17	5	0	293
STONY PLAIN-LAC STE. ANNE	0	2	44	133	124	37	4	1	345
STURGEON	0	2	41	164	181	47	12	0	447
VEGREVILLE	0	0	10	45	42	14	1	0	112
WETOKA	0	0	32	68	70	22	1	0	193
ALBERTA	0	70	1303	3924	3892	1330	185	8	10712

1.10

NUMBER OF LIVE BIRTHS IN WEIGHT (GRAMS) CATEGORIES, 1989

HEALTH UNIT	<1000	1000-1499	1500-1999	2000-2499	2500-2999	3000-4499	4500+	TOTAL
ALBERTA EAST CENTRAL	4	6	4	33	121	588	16	772
ALBERTA WEST CENTRAL	2	2	12	35	126	561	20	758
ATHABASCA	3	3	1	26	98	524	18	673
BANFF NATIONAL PARK	0	0	1	2	16	64	0	83
BARONS EUREKA-WERNER	2	2	3	25	140	596	15	783
BIG COUNTRY	0	0	0	8	27	148	2	185
CALGARY	57	58	134	519	2155	9031	152	12106
CHINOOK	4	2	3	23	76	468	10	586
DRUMHELLER	4	2	4	17	70	420	11	528
EDMONTON	53	57	116	423	1723	7962	166	10500
FOOTHILLS	3	1	3	12	72	420	9	520
FORT MCMURRAY	2	3	8	21	83	574	17	708
HIGH LEVEL-FORT VERMILION	4	4	3	12	60	361	6	450
JASPER NATIONAL PARK	0	1	0	3	6	53	2	65
LEDUC-STRATHCONA	4	6	16	52	234	1211	26	1549
LETHBRIDGE	3	4	12	36	164	677	19	915
MINBURN-VERMILION	5	0	3	22	59	281	6	376
MOUNT VIEW	3	3	12	43	167	819	19	1066
NORTH EASTERN ALBERTA	4	2	8	31	124	777	17	963
PEACE RIVER	2	3	9	21	94	652	19	800
RED DEER REGIONAL	9	10	26	91	334	1632	43	2145
SOUTH EASTERN ALBERTA	5	10	8	37	186	926	19	1191
SOUTH PEACE	7	8	11	46	148	843	22	1085
STONY PLAIN-LAC STE. ANNE	6	2	9	42	167	894	11	1131
STURGEON	4	8	16	54	215	1209	17	1523
VEGREVILLE	0	3	3	14	63	297	6	386
WETOKA	0	2	6	24	71	478	12	593
ALBERTA	190	202	431	1672	6799	32466	680	42440

1.11

PERCENT OF LIVE BIRTHS IN WEIGHT (GRAMS) CATEGORIES, 1989

HEALTH UNIT	<1000	1000-1499	1500-1999	2000-2499	2500-2999	3000-4499	4500+
ALBERTA EAST CENTRAL	0.5	0.8	0.5	4.3	15.7	76.2	2.1
ALBERTA WEST CENTRAL	0.3	0.3	1.6	4.6	16.6	74.0	2.6
ATHABASCA	0.4	0.4	0.1	3.9	14.6	77.9	2.7
BANFF NATIONAL PARK	0.0	0.0	1.2	2.4	19.3	77.1	0.0
BARONS EUREKA-WERNER	0.3	0.3	0.4	3.2	17.9	76.1	1.9
BIG COUNTRY	0.0	0.0	0.0	4.3	14.6	80.0	1.1
CALGARY	0.5	0.5	1.1	4.3	17.8	74.6	1.3
CHINOOK	0.7	0.3	0.5	3.9	13.0	79.9	1.7
DRUMHELLER	0.8	0.4	0.8	3.2	13.3	79.5	2.1
EDMONTON	0.5	0.5	1.1	4.0	16.4	75.8	1.6
FOOTHILLS	0.6	0.2	0.6	2.3	13.8	80.8	1.7
FORT MCMURRAY	0.3	0.4	1.1	3.0	11.7	81.1	2.4
HIGH LEVEL-FORT VERMILION	0.9	0.9	0.7	2.7	13.3	80.2	1.3
JASPER NATIONAL PARK	0.0	1.5	0.0	4.6	9.2	81.5	3.1
LEDUC-STRATHCONA	0.3	0.4	1.0	3.4	15.1	78.2	1.7
LETHBRIDGE	0.3	0.4	1.3	3.9	17.9	74.0	2.1
MINBURN-VERMILION	1.3	0.0	0.8	5.9	15.7	74.7	1.6
MOUNT VIEW	0.3	0.3	1.1	4.0	15.7	76.8	1.8
NORTH EASTERN ALBERTA	0.4	0.2	0.8	3.2	12.9	80.7	1.8
PEACE RIVER	0.3	0.4	1.1	2.6	11.8	81.5	2.4
RED DEER REGIONAL	0.4	0.5	1.2	4.2	15.6	76.1	2.0
SOUTH EASTERN ALBERTA	0.4	0.8	0.7	3.1	15.6	77.7	1.6
SOUTH PEACE	0.6	0.7	1.0	4.2	13.6	77.7	2.0
STONY PLAIN-LAC STE. ANNE	0.5	0.2	0.8	3.7	14.8	79.0	1.0
STURGEON	0.3	0.5	1.1	3.5	14.1	79.4	1.1
VEGREVILLE	0.0	0.8	0.8	3.6	16.3	76.9	1.6
WETOKA	0.0	0.3	1.0	4.0	12.0	80.6	2.0
ALBERTA	0.4	0.5	1.0	3.9	16.0	76.5	1.6

1.12

NUMBER OF LIVE BIRTHS TO SINGLE MOTHERS, 1989

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	1	35	45	12	7	2	0	0	102
ALBERTA WEST CENTRAL	0	63	66	33	5	2	1	0	170
ATHABASCA	1	90	122	65	15	1	0	0	294
BANFF NATIONAL PARK	0	4	3	6	2	0	0	0	15
BARONS EUREKA-WERNER	0	27	22	9	4	1	0	0	63
BIG COUNTRY	0	5	1	4	0	0	0	0	10
CALGARY	5	434	703	408	158	30	4	0	1742
CHINOOK	2	29	38	8	5	1	0	0	83
DRUMHELLER	1	23	42	20	13	2	0	0	101
EDMONTON	4	602	874	458	157	44	3	0	2142
FOOTHILLS	0	17	21	13	2	2	0	0	55
FORT MCMURRAY	2	66	105	44	18	0	0	0	235
HIGH LEVEL-FORT VERMILION	0	54	59	31	9	7	0	0	160
JASPER NATIONAL PARK	0	2	4	3	1	0	0	0	10
LEDUC-STRATHCONA	0	59	50	24	12	2	0	0	147
LETHBRIDGE	2	66	58	27	10	2	0	0	165
MINBURN-VERMILION	0	20	20	11	4	1	0	0	56
MOUNT VIEW	1	27	39	21	7	2	0	0	97
NORTH EASTERN ALBERTA	1	100	100	49	19	2	1	0	272
PEACE RIVER	2	81	125	43	9	4	0	0	264
RED DEER REGIONAL	0	157	157	74	16	8	0	0	412
SOUTH EASTERN ALBERTA	1	68	82	37	6	0	0	0	194
SOUTH PEACE	3	101	93	35	15	2	0	0	249
STONY PLAIN-LAC STE. ANNE	0	66	82	36	9	0	0	0	193
STURGEON	0	86	78	19	9	5	0	0	197
VEGREVILLE	1	27	29	6	4	0	0	0	67
WETOKA	0	38	49	18	9	3	0	0	117
ALBERTA	27	2347	3067	1514	525	123	9	0	7612

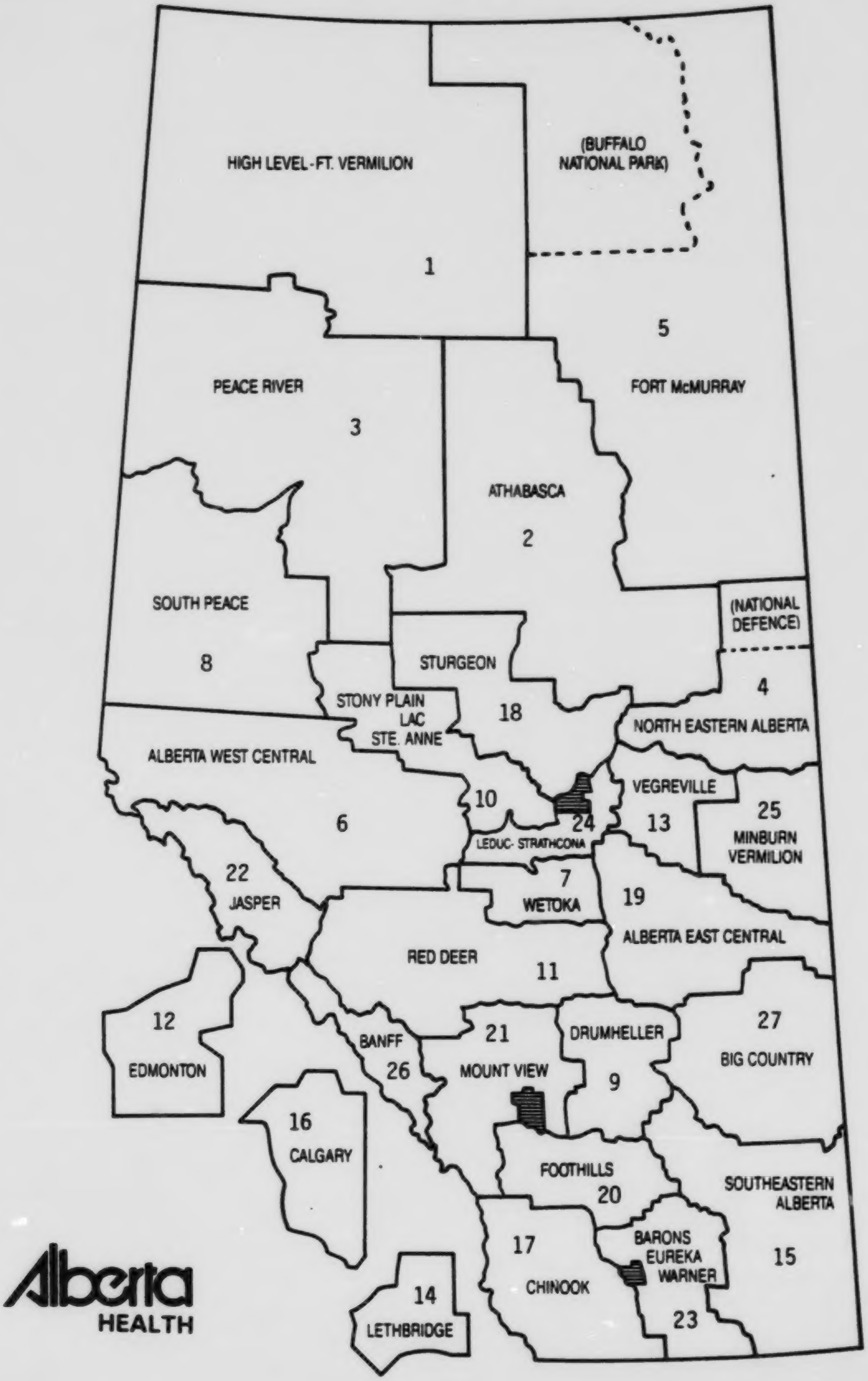
AGE-SPECIFIC LIVE BIRTH RATES (PER 1,000 SINGLE MOTHERS), 1989

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49
ALBERTA EAST CENTRAL	0.5	17.9	27.1	6.2	3.4	1.1	0.0	0.0
ALBERTA WEST CENTRAL	0.0	41.9	44.7	18.0	2.6	1.3	0.8	0.0
ATHABASCA	0.7	64.8	110.8	52.9	12.2	0.9	0.0	0.0
BANFF NATIONAL PARK	0.0	10.3	4.2	12.2	5.3	0.0	0.0	0.0
BARONS EUREKA-WERNER	0.0	16.4	18.3	6.1	2.6	0.7	0.0	0.0
BIG COUNTRY	0.0	10.8	2.6	9.4	0.0	0.0	0.0	0.0
CALGARY	0.2	19.6	24.8	11.0	4.5	1.0	0.2	0.0
CHINOOK	1.2	17.7	32.4	5.5	3.3	0.7	0.0	0.0
DRUMHELLER	0.8	17.2	42.1	16.2	9.5	1.7	0.0	0.0
EDMONTON	0.2	29.9	30.4	14.0	5.4	2.0	0.2	0.0
FOOTHILLS	0.0	14.2	25.7	10.7	1.3	1.4	0.0	0.0
FORT MCMURRAY	1.2	41.6	67.7	19.8	8.3	0.0	0.0	0.0
HIGH LEVEL-FORT VERMILION	0.0	77.3	93.9	48.3	18.4	19.1	0.0	0.0
JASPER NATIONAL PARK	0.0	14.7	13.0	12.0	5.4	0.0	0.0	0.0
LEDUC-STRATHCONA	0.0	12.9	18.1	6.4	2.3	0.4	0.0	0.0
LETHBRIDGE	1.0	30.5	23.5	9.8	3.6	0.8	0.0	0.0
MINBURN-VERMILION	0.0	13.6	14.0	6.7	2.4	0.7	0.0	0.0
MOUNT VIEW	0.4	12.7	23.4	8.2	2.2	0.7	0.0	0.0
NORTH EASTERN ALBERTA	0.5	51.8	51.3	23.2	10.2	1.2	0.7	0.0
PEACE RIVER	1.1	52.7	95.3	27.1	5.8	3.1	0.0	0.0
RED DEER REGIONAL	0.0	34.7	31.7	12.6	2.8	1.7	0.0	0.0
SOUTH EASTERN ALBERTA	0.4	24.8	28.5	10.9	1.8	0.0	0.0	0.0
SOUTH PEACE	1.1	39.0	35.5	11.0	4.8	0.8	0.0	0.0
STONY PLAIN-LAC STE. ANNE	0.0	27.7	43.5	13.1	2.7	0.0	0.0	0.0
STURGEON	0.0	23.1	27.3	5.0	1.9	1.1	0.0	0.0
VEGREVILLE	1.0	26.3	42.4	7.0	3.7	0.0	0.0	0.0
WETOKA	0.0	28.2	42.3	12.5	5.9	2.2	0.0	0.0
ALBERTA	0.3	26.6	31.4	12.6	4.4	1.2	0.1	0.0

AGE-STANDARDIZED LIVE BIRTH RATES (PER 1,000 SINGLE MOTHERS), 1989

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	7.3	5.9	8.8	19	0.72	.
ALBERTA WEST CENTRAL	14.3	12.1	16.4	6	1.42	YES
ATHABASCA	32.5	28.7	36.3	2	3.22	YES
BANFF NATIONAL PARK	4.5	2.2	6.9	26	0.45	.
BARONS EUREKA-WERNER	5.8	4.3	7.2	23	0.57	.
BIG COUNTRY	3.1	1.1	5.0	27	0.31	.
CALGARY	8.2	7.8	8.5	16	0.81	.
CHINOOK	7.9	6.2	9.6	17	0.78	.
DRUMHELLER	11.8	9.5	14.2	9	1.17	.
EDMONTON	10.8	10.4	11.3	12	1.07	YES
FOOTHILLS	7.1	5.2	9.0	20	0.70	.
FORT MCMURRAY	18.2	15.9	20.6	5	1.80	YES
HIGH LEVEL-FORT VERMILION	34.3	28.9	39.8	1	3.40	YES
JASPER NATIONAL PARK	6.2	2.2	10.1	22	0.61	.
LEDUC-STRATHCONA	5.3	4.4	6.2	24	0.52	.
LETHBRIDGE	9.0	7.6	10.3	14	0.89	.
MINBURN-VERMILION	5.0	3.7	6.3	25	0.50	.
MOUNT VIEW	6.3	5.0	7.6	21	0.62	.
NORTH EASTERN ALBERTA	18.3	16.1	20.5	4	1.81	YES
PEACE RIVER	24.3	21.3	27.2	3	2.41	YES
RED DEER REGIONAL	10.9	9.8	11.9	11	1.08	.
SOUTH EASTERN ALBERTA	8.6	7.4	9.9	15	0.85	.
SOUTH PEACE	11.9	10.4	13.4	8	1.18	YES
STONY PLAIN-LAC STE. ANNE	11.4	9.8	13.0	10	1.13	.
STURGEON	7.5	6.4	8.5	18	0.74	.
VEGREVILLE	10.4	7.8	12.9	13	1.03	.
WETOKA	12.0	9.8	14.2	7	1.19	YES
ALBERTA	10.1	9.9	10.3			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
1
(BUFFALO NATIONAL PARK)
5
FORT McMURRAY
PEACE RIVER
3
ATHABASCA
2
SOUTH PEACE
8
(NATIONAL DEFENCE)
STURGEON
18
4
NORTH EASTERN ALBERTA
STONY PLAIN LAC STE. ANNE
ALBERTA WEST CENTRAL
6
10
24
VEGREVILLE
13
25
MINBURN VERMILION
LEDUC- STRATHCONA
22
JASPER
7
WETOKA
19
ALBERTA EAST CENTRAL
RED DEER
11
12
EDMONTON
BANFF
26
21
MOUNT VIEW
DRUMHELLER
9
27
BIG COUNTRY
16
CALGARY
FOOTHILLS
20
SOUTHEASTERN ALBERTA
15
17
CHINOOK
BARONS EUREKA WARNER
23
14
LETHBRIDGE
Alberta
HEALTH

PERCENT OF LIVE BIRTHS TO SINGLE MOTHERS, 1989

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	100	80	22	4	4	5	0	0	13
ALBERTA WEST CENTRAL	0	84	29	11	4	6	20	0	22
ATHABASCA	100	81	53	29	19	6	0	0	44
BANFF NATIONAL PARK	0	100	21	23	7	0	0	0	18
BARONS-EUREKA-WARNER	0	54	11	3	2	2	0	0	8
BIG COUNTRY	0	71	2	4	0	0	0	0	5
CALGARY	100	75	33	9	4	3	3	0	14
CHINOOK	100	73	25	4	4	2	0	0	14
DRUMHELLER	100	77	30	10	11	8	4	0	19
EDMONTON	100	81	38	12	6	6	0	0	20
FOOTHILLS	0	94	24	6	1	5	0	0	11
FORT MCMURRAY	100	90	51	17	13	0	0	0	33
HIGH LEVEL-FORT VERMILION	0	70	41	25	15	28	0	0	36
JASPER NATIONAL PARK	0	100	36	12	5	0	0	0	15
LEDUC-STRATHCONA	0	77	21	4	3	2	0	0	9
LETHBRIDGE	100	79	28	8	5	3	0	0	18
MINBURN-VERMILION	0	83	22	6	6	6	0	0	15
MOUNT VIEW	100	71	19	5	2	2	0	0	9
NORTH EASTERN ALBERTA	100	81	36	14	12	6	25	0	28
PEACE RIVER	100	72	48	17	7	11	0	0	33
RED DEER REGIONAL	0	81	25	9	4	7	0	0	19
SOUTHEASTERN ALBERTA	100	72	26	8	2	0	0	0	16
SOUTH PEACE	100	85	30	9	7	6	0	0	23
STONY PLAIN-LAC STE. ANNE	0	84	29	8	4	0	0	0	17
STURGEON	0	78	25	3	2	5	0	0	13
VEGREVILLE	100	75	28	4	5	0	0	0	17
WETOKA	0	81	30	8	7	9	0	0	20
ALBERTA	100	79	32	9	5	4	3	0	18

1.17

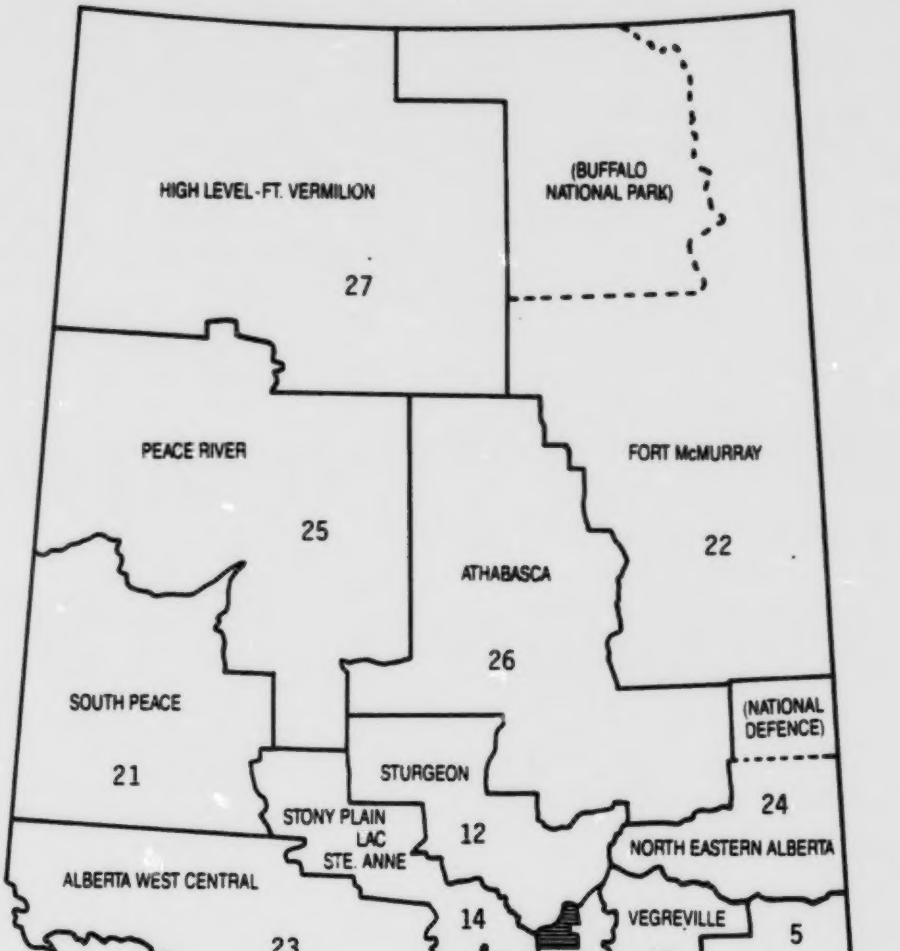
NUMBER OF TEENAGE (15-19) LIVE BIRTHS, 1989

HEALTH UNIT	NUMBER
ALBERTA EAST CENTRAL	44
ALBERTA WEST CENTRAL	75
ATHABASCA	111
BANFF NATIONAL PARK	4
BARONS EUREKA-WERNER	50
BIG COUNTRY	7
CALGARY	576
CHINOOK	40
DRUMHELLER	30
EDMONTON	740
FOOTHILLS	18
FORT MCMURRAY	73
HIGH LEVEL-FORT VERMILION	77
JASPER NATIONAL PARK	2
LEDUC-STRATHCONA	77
LETHBRIDGE	84
MINBURN-VERMILION	24
MOUNT VIEW	38
NORTH EASTERN ALBERTA	123
PEACE RIVER	113
RED DEER REGIONAL	192
SOUTH EASTERN ALBERTA	95
SOUTH PEACE	119
STONY PLAIN-LAC STE. ANNE	79
STURGEON	110
VEGREVILLE	36
WETOKA	47
ALBERTA	2984

TEENAGE (15-19) LIVE BIRTHS RATES (PER 1,000 FEMALES), 1989

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	22.6	15.9	29.2	9	0.70	.
ALBERTA WEST CENTRAL	49.9	38.6	61.2	23	1.54	YES
ATHABASCA	79.9	65.0	94.8	26	2.47	YES
BANFF NATIONAL PARK	10.3	0.2	20.5	1	0.32	.
BARONS EUREKA-WERNER	30.4	21.9	38.8	13	0.94	.
BIG COUNTRY	15.1	3.9	26.3	4	0.47	.
CALGARY	26.0	23.9	28.2	11	0.80	.
CHINOOK	24.4	16.8	31.9	10	0.75	.
DRUMHELLER	22.4	14.4	30.4	8	0.69	.
EDMONTON	36.8	34.2	39.5	18	1.14	YES
FOOTHILLS	15.0	8.1	21.9	3	0.46	.
FORT MCMURRAY	46.1	35.5	56.6	22	1.42	YES
HIGH LEVEL-FORT VERMILION	110.2	85.6	134.8	27	3.40	YES
JASPER NATIONAL PARK	14.7	-5.7	35.1	2	0.45	.
LEDUC-STRATHCONA	16.9	13.1	20.7	6	0.52	.
LETHBRIDGE	38.8	30.5	47.1	19	1.20	YES
MINBURN-VERMILION	16.4	9.8	22.9	5	0.51	.
MOUNT VIEW	17.9	12.2	23.6	7	0.55	.
NORTH EASTERN ALBERTA	63.8	52.5	75.0	24	1.97	YES
PEACE RIVER	73.5	60.0	87.1	25	2.27	YES
RED DEER REGIONAL	42.4	36.4	48.4	20	1.31	YES
SOUTH EASTERN ALBERTA	34.6	27.6	41.6	15	1.07	YES
SOUTH PEACE	45.9	37.6	54.1	21	1.42	YES
STONY PLAIN-LAC STE. ANNE	33.1	25.8	40.4	14	1.02	YES
STURGEON	29.5	24.0	35.1	12	0.91	YES
VEGREVILLE	35.1	23.6	46.5	17	1.08	YES
WETOKA	34.8	24.9	44.8	16	1.08	YES
ALBERTA	33.8	32.6	35.0			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
27
(BUFFALO NATIONAL PARK)
PEACE RIVER
25
FORT McMURRAY
22
ATHABASCA
26
SOUTH PEACE
21
(NATIONAL DEFENCE)
STURGEON
12
STONY PLAIN LAC STE. ANNE
24
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
23
14
VEGREVILLE
17
5
MINBURN VERMILION
6
LEDUC- STRATHCONA
2
JASPER
16
WETOKA
9
ALBERTA EAST CENTRAL
RED DEER
20
18
EDMONTON
BANFF
1
7
MOUNT VIEW
DRUMHELLER
8
4
BIG COUNTRY
11
CALGARY
FOOTHILLS
3
SOUTHEASTERN ALBERTA
10
CHINOOK
BARONS EUREKA WARNER
15
13
19
LETHBRIDGE

Alberta
HEALTH

1.20

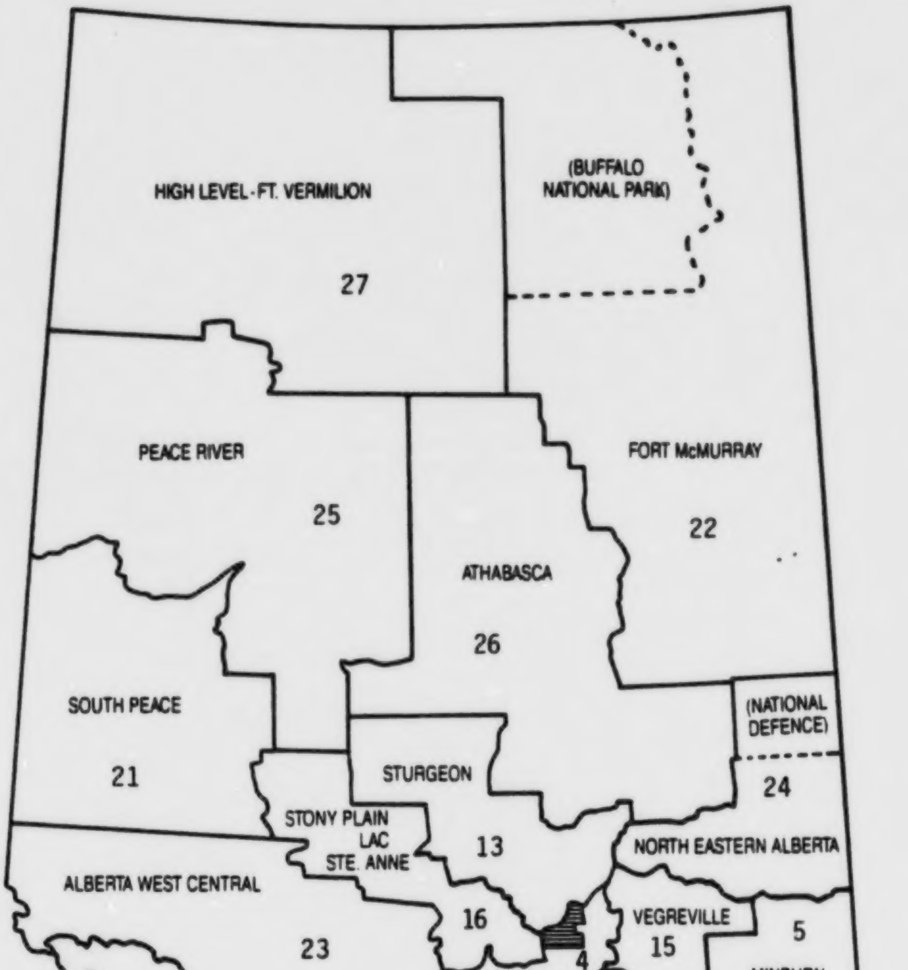
NUMBER OF LIVE BIRTHS TO SINGLE TEENAGE (15-19) MOTHERS, 1989

HEALTH UNIT	NUMBER
ALBERTA EAST CENTRAL	35
ALBERTA WEST CENTRAL	63
ATHABASCA	90
BANFF NATIONAL PARK	4
BARONS EUREKA-WERNER	27
BIG COUNTRY	5
CALGARY	434
CHINOOK	29
DRUMHELLER	23
EDMONTON	602
FOOTHILLS	17
FORT MCMURRAY	66
HIGH LEVEL-FORT VERMILION	54
JASPER NATIONAL PARK	2
LEDUC-STRATHCONA	59
LETHBRIDGE	66
MINBURN-VERMILION	20
MOUNT VIEW	27
NORTH EASTERN ALBERTA	100
PEACE RIVER	81
RED DEER REGIONAL	157
SOUTH EASTERN ALBERTA	68
SOUTH PEACE	101
STONY PLAIN-LAC STE. ANNE	66
STURGEON	86
VEGREVILLE	27
WETOKA	38
ALBERTA	2347

LIVE BIRTH RATES (PER 1,000 SINGLE TEENAGE MOTHERS), 1989

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	17.9	12.0	23.9	11	0.71	.
ALBERTA WEST CENTRAL	41.9	31.6	52.3	23	1.67	YES
ATHABASCA	64.8	51.4	78.2	26	2.58	YES
BANFF NATIONAL PARK	10.3	0.2	20.5	1	0.41	.
BARONS EUREKA-WERNER	16.4	10.2	22.6	8	0.65	.
BIG COUNTRY	10.8	1.3	20.3	2	0.43	.
CALGARY	19.6	17.8	21.5	12	0.78	.
CHINOOK	17.7	11.2	24.1	10	0.70	.
DRUMHELLER	17.2	10.1	24.2	9	0.68	.
EDMONTON	29.9	27.5	32.3	18	1.19	YES
FOOTHILLS	14.2	7.4	20.9	6	0.56	.
FORT MCMURRAY	41.6	31.6	51.7	22	1.66	YES
HIGH LEVEL-FORT VERMILION	77.3	56.6	97.9	27	3.07	YES
JASPER NATIONAL PARK	14.7	-5.7	35.1	7	0.59	.
LEDUC-STRATHCONA	12.9	9.6	16.3	4	0.52	.
LETHBRIDGE	30.5	23.2	37.9	19	1.21	.
MINBURN-VERMILION	13.6	7.7	19.6	5	0.54	.
MOUNT VIEW	12.7	7.9	17.5	3	0.51	.
NORTH EASTERN ALBERTA	51.8	41.7	62.0	24	2.06	YES
PEACE RIVER	52.7	41.2	64.2	25	2.10	YES
RED DEER REGIONAL	34.7	29.2	40.1	20	1.38	YES
SOUTH EASTERN ALBERTA	24.8	18.9	30.6	14	0.99	.
SOUTH PEACE	39.0	31.4	46.5	21	1.55	YES
STONY PLAIN-LAC STE. ANNE	27.7	21.0	34.4	16	1.10	.
STURGEON	23.1	18.2	28.0	13	0.92	.
VEGREVILLE	26.3	16.4	36.2	15	1.05	.
WETOKA	28.2	19.2	37.1	17	1.12	.
ALBERTA	26.6	25.5	27.7			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
27
(BUFFALO NATIONAL PARK)
PEACE RIVER
25
FORT McMURRAY
22
ATHABASCA
26
SOUTH PEACE
21
(NATIONAL DEFENCE)
STURGEON
13
24
STONY PLAIN LAC STE. ANNE
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
23
16
VEGREVILLE
15
5
MINBURN VERMILION
4
LEDUC - STRATHCONA
7
17
WETOKA
11
JASPER
ALBERTA EAST CENTRAL
RED DEER
20
18
EDMONTON
3
BANFF
1
MOUNT VIEW
DRUMHELLER
9
2
BIG COUNTRY
12
CALGARY
FOOTHILLS
6
SOUTHEASTERN ALBERTA
10
CHINOOK
BARONS EUREKA WARNER
14
8
19
LETHBRIDGE

Alberta HEALTH

CHAPTER 2

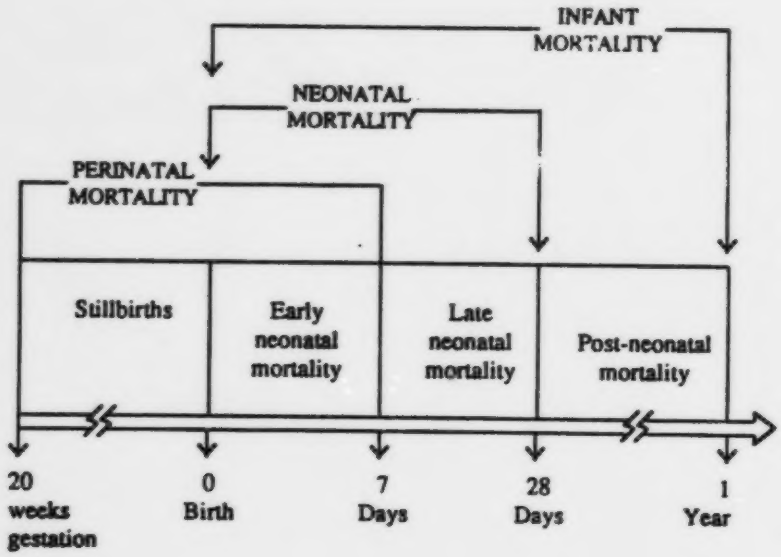
STILLBIRTHS, INFANT MORTALITY AND PERINATAL DEATHS

1989

DESCRIPTION OF TABLES

This chapter presents detailed information on stillbirths and infant mortality in Alberta health units. First, data for stillbirths are provided. This is followed by infant mortality rates, which include perinatal, early neonatal, late neonatal and post-neonatal mortality. The following figure illustrates the concept of stillbirths and infant mortality.

FIGURE


INFANT MORTALITY
NEONATAL MORTALITY
PERINATAL MORTALITY
Stillbirths
Early neonatal mortality
Late neonatal mortality
Post-neonatal mortality
20 weeks gestation
0 Birth
7 Days
28 Days
1 Year

Tables 2.1 and 2.2 give the number of stillbirths among married females by age group and health units. Once again, the totals for the health units and Alberta are provided. Similarly, Table 2.2 shows the number of stillbirths among single females.

Table 2.3 presents the stillbirth ratios (per 1,000 births) for the health units and Alberta. Stillbirth ratios are defined by:

$$\frac{\text{stillbirths}}{\text{live births}} \times 1{,}000$$

It is the number of stillbirths relative to the number of live births. Since stillbirth statistics are less reliable than desireable, stillbirth ratios should be interpreted with caution.

Table 2.4 shows the number and rate of infant deaths for each health unit. Infant death rate is defined by:

$$\frac{\text{number of deaths under 1 Year of Age}}{\text{number of live births}} \times 1{,}000$$

It should be noted that in 1989 there was a total of 309 infant deaths in the health units of Alberta. Another 9 occurred in Indian reserves, and 13 infant deaths were recorded without any health unit codes. Thus, the infant deaths and the rates shown in this table deal with 93% of the total Alberta infant deaths.

Table 2.5 gives the age distribution of infant mortality (early neonatal, late neonatal, and post-neonatal deaths).

Table 2.6 gives the number of perinatal deaths and perinatal death rates (per 1,000 births). Perinatal deaths consist of stillbirths and deaths within the first week of life. The perinatal death rate is defined by:

$$\frac{\text{stillbirths and first week deaths}}{\text{stillbirths and live births}} \times 1{,}000$$

Since stillbirth statistics are somewhat unreliable, as mentioned earlier, perinatal death rates must be interpreted with caution.

Tables 2.7 and 2.8 show the number and percentage of three major causes of early neonatal mortality, from 1987 to 1989 inclusive, for males and females, respectively.

Tables 2.9 and 2.10 give the number and percentage of three major causes of late neonatal and post-natal mortality, from 1987 to 1989 inclusive, for males and females, respectively.

The International Classification of Diseases - ninth revision (ICD-9) rubrics used in Tables 2.7 to 2.10 are as follows:

CAUSE OF DEATH	ICD-9 RUBRIC
Congenital	740.0 - 759.9
Respiratory	769.0
SIDS	798.0
Other	All other codes

2.1

NUMBER OF STILLBIRTHS AMONG MARRIED FEMALES, 1989

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	0	0	3	2	0	0	0	5
ALBERTA WEST CENTRAL	0	0	1	1	0	1	0	0	3
ATHABASCA	0	0	1	1	0	0	0	0	2
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	1	0	0	0	0	1
BIG COUNTRY	0	0	0	0	1	0	0	0	1
CALGARY	0	1	5	24	21	0	1	0	56
CHINOOK	0	0	0	1	0	0	0	0	1
DRUMHELLER	0	1	0	1	1	1	0	0	4
EDMONTON	0	1	7	20	16	8	1	0	53
FOOTHILLS	0	0	0	2	0	0	0	0	2
FORT MCMURRAY	0	0	0	2	1	0	0	0	3
HIGH LEVEL-FORT VERMILION	0	1	1	2	0	0	0	0	4
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	2	1	0	0	0	0	4
LETHBRIDGE	0	0	0	2	1	0	0	0	3
MINBURN-VERMILION	0	0	0	0	1	0	0	0	4
MOUNT VIEW	0	0	0	0	1	0	0	0	4
NORTH EASTERN ALBERTA	0	0	4	0	0	1	0	0	7
PEACE RIVER	0	1	0	4	0	0	0	0	5
RED DEER REGIONAL	0	0	0	0	2	1	0	0	7
SOUTHEASETRN ALBERTA	0	0	2	0	2	0	1	0	6
SOUTH PEACE	0	0	0	2	2	0	0	0	5
STONY PLAIN-LAC STE. ANNE	0	0	1	0	2	1	0	0	6
STURGEON	0	0	0	1	1	1	0	0	6
VEGREVILLE	0	0	0	0	0	1	0	0	1
WETOKA	0	0	0	0	0	0	0	0	0
ALBERTA	0	5	24	87	55	19	3	0	193

NUMBER OF STILLBIRTHS AMONG SINGLE FEMALES, 1989

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0	0	1	0	0	0	0	0	1
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0
ATHABASCA	0	0	0	1	0	0	0	0	1
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	1	0	0	0	0	0	1
BIG COUNTRY	0	0	0	0	0	0	0	0	0
CALGARY	0	1	6	2	1	3	0	0	13
CHINOOK	0	1	0	0	1	0	0	0	2
DRUMHELLER	0	0	0	0	0	0	0	0	0
EDMONTON	0	3	5	3	3	1	0	0	15
FOOTHILLS	0	0	0	0	0	0	0	0	0
FORT MCMURRAY	0	1	0	0	0	0	0	0	1
HIGH LEVEL-FORT VERMILION	0	2	0	0	0	0	0	0	2
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0
LETHBRIDGE	0	0	0	0	0	0	0	0	0
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0
MOUNT VIEW	0	1	0	1	0	0	0	0	2
NORTH EASTERN ALBERTA	0	1	1	0	0	0	0	0	2
PEACE RIVER	0	1	2	0	0	0	0	0	3
RED DEER REGIONAL	0	1	0	0	0	0	0	0	1
SOUTHEASETRN ALBERTA	0	0	0	0	0	0	0	0	0
SOUTH PEACE	0	1	1	0	0	1	0	0	3
STONY PLAIN-LAC STE. ANNE	0	2	0	0	1	0	0	0	3
STURGEON	0	0	1	0	1	0	0	0	2
VEGREVILLE	0	0	0	0	0	0	0	0	0
WETOKA	0	0	0	1	0	1	0	0	2
ALBERTA	0	13	19	9	7	6	0	0	54

2.3

STILLBIRTH RATIOS (PER 1,000 BIRTHS), 1989

HEALTH UNIT	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL
ALBERTA EAST CENTRAL	0.0	0.0	5.0	9.3	12.7	0.0	0.0	0.0	7.8
ALBERTA WEST CENTRAL	0.0	0.0	4.5	3.5	0.0	27.8	0.0	0.0	4.0
ATHABASCA	0.0	0.0	4.3	8.8	0.0	0.0	0.0	0.0	4.5
BANFF NATIONAL PARK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BARONS-EUREKA-WARNER	0.0	0.0	5.0	3.2	0.0	0.0	0.0	0.0	2.6
BIG COUNTRY	0.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	5.4
CALGARY	0.0	3.5	5.2	5.8	5.8	7.0	8.7	0.0	5.7
CHINOOK	0.0	25.0	0.0	5.0	7.2	0.0	0.0	0.0	5.1
DRUMHELLER	0.0	33.3	0.0	4.8	8.2	38.5	0.0	0.0	7.6
EDMONTON	0.0	5.4	5.2	5.9	7.1	11.3	12.2	0.0	6.5
FOOTHILLS	0.0	0.0	0.0	9.3	0.0	0.0	0.0	0.0	3.8
FORT MCMURRAY	0.0	13.7	0.0	7.9	7.1	0.0	0.0	0.0	5.6
HIGH LEVEL-FORT VERMILION	0.0	39.0	6.9	14.7	0.0	0.0	0.0	0.0	13.3
JASPER NATIONAL PARK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LEDUC-STRATHCONA	0.0	0.0	8.5	1.5	2.2	0.0	0.0	0.0	2.6
LETHBRIDGE	0.0	0.0	0.0	6.0	4.6	0.0	0.0	0.0	3.3
MINBURN-VERMILION	0.0	0.0	0.0	17.0	15.2	0.0	0.0	0.0	10.6
MOUNT VIEW	0.0	2.6	0.0	10.2	3.0	0.0	0.0	0.0	5.6
NORTH EASTERN ALBERTA	0.0	0.0	18.1	8.3	0.0	29.4	0.0	0.0	9.3
PEACE RIVER	0.0	17.7	7.8	15.4	0.0	0.0	0.0	0.0	10.0
RED DEER REGIONAL	0.0	0.0	1.6	5.0	4.8	9.0	0.0	0.0	3.7
SOUTHEASETRN ALBERTA	0.0	0.0	6.3	2.1	7.8	0.0	200.0	0.0	5.0
SOUTH PEACE	0.0	8.4	3.2	7.3	9.8	30.3	0.0	0.0	7.4
STONY PLAIN-LAC STE. ANNE	0.0	25.3	3.6	4.4	12.0	15.4	0.0	0.0	8.0
STURGEON	0.0	0.0	3.2	7.0	4.8	10.1	0.0	0.0	5.3
VEGREVILLE	0.0	0.0	0.0	0.0	0.0	38.5	0.0	0.0	2.6
WETOKA	0.0	0.0	0.0	4.6	0.0	28.6	0.0	0.0	3.4
ALBERTA	0.0	6.0	4.6	6.0	5.8	8.6	9.7	0.0	5.8

2.4

NUMBER OF INFANT DEATHS AND INFANT DEATH RATES

(PER 1,000 LIVE BIRTHS), 1989

HEALTH UNIT	NUMBER	RATE
ALBERTA EAST CENTRAL	7	9.1
ALBERTA WEST CENTRAL	6	7.9
ATHABASCA	8	11.9
BANFF NATIONAL PARK	0	0.0
BARONS-EUREKA-WARNER	3	3.8
BIG COUNTRY	1	5.4
CALGARY	77	6.4
CHINOOK	12	20.5
DRUMHELLER	0	0.0
EDMONTON	75	7.1
FOOTHILLS	2	3.8
FORT MCMURRAY	4	5.6
HIGH LEVEL-FORT VERMILION	5	11.1
JASPER NATIONAL PARK	0	0.0
LEDUC-STRATHCONA	8	5.2
LETHBRIDGE	9	9.8
MINBURN-VERMILION	1	2.7
MOUNT VIEW	5	4.7
NORTH EASTERN ALBERTA	11	11.4
PEACE RIVER	2	2.5
RED DEER REGIONAL	17	7.9
SOUTHEASETRN ALBERTA	11	9.2
SOUTH PEACE	17	15.7
STONY PLAIN-LAC STE. ANNE	9	8.0
STURGEON	14	9.2
VEGREVILLE	0	0.0
WETOKA	5	8.4
ALBERTA	309	7.3

2.5

AGE-SPECIFIC DISTRIBUTION OF INFANT DEATHS, 1989

	INFANT DEATHS			PERCENTAGE DISTRIBUTION		
HEALTH UNIT	< 7 DAYS	7-27 DAYS	28+ DAYS	< 7 DAYS	7-27 DAYS	28+ DAYS
ALBERTA EAST CENTRAL	5	1	1	71.4	14.3	14.3
ALBERTA WEST CENTRAL	1	0	5	16.7	0.0	83.3
ATHABASCA	3	1	4	37.5	12.5	50.0
BANFF NATIONAL PARK	0	0	0	0.0	0.0	0.0
BARONS-EUREKA-WARNER	1	0	2	33.3	0.0	66.7
BIG COUNTRY	0	0	1	0.0	0.0	100.0
CALGARY	43	8	26	55.8	10.4	33.8
CHINOOK	4	0	8	33.3	0.0	66.7
DRUMHELLER	0	0	0	0.0	0.0	0.0
EDMONTON	36	11	28	48.0	14.7	37.3
FOOTHILLS	2	0	0	100.0	0.0	0.0
FORT MCMURRAY	0	1	3	0.0	25.0	75.0
HIGH LEVEL-FORT VERMILION	2	1	2	40.0	20.0	40.0
JASPER NATIONAL PARK	0	0	0	0.0	0.0	0.0
LEDUC-STRATHCONA	1	1	6	12.5	12.5	75.0
LETHBRIDGE	5	0	4	55.6	0.0	44.4
MINBURN-VERMILION	1	0	0	100.0	0.0	0.0
MOUNT VIEW	3	0	2	60.0	0.0	40.0
NORTH EASTERN ALBERTA	4	2	5	36.4	18.2	45.4
PEACE RIVER	1	0	1	50.0	0.0	50.0
RED DEER REGIONAL	9	3	5	52.9	17.7	29.4
SOUTHEASETRN ALBERTA	5	1	5	45.5	9.1	45.4
SOUTH PEACE	5	3	9	29.4	17.7	52.9
STONY PLAIN-LAC STE. ANNE	6	1	2	66.7	11.1	22.2
STURGEON	6	1	7	42.9	7.2	50.0
VEGREVILLE	0	0	0	0.0	0.0	0.0
WETOKA	1	1	3	20.0	20.0	60.0
ALBERTA	144	36	129	46.6	11.7	41.7

2.6

NUMBER OF PERINATAL DEATHS AND PERINATAL DEATH RATES

(PER 1,000 LIVE BIRTHS), 1989

HEALTH UNIT	NUMBER	RATE
ALBERTA EAST CENTRAL	11	14.1
ALBERTA WEST CENTRAL	4	5.3
ATHABASCA	6	8.9
BANFF NATIONAL PARK	0	0.0
BARONS-EUREKA-WARNER	3	3.8
BIG COUNTRY	1	5.4
CALGARY	112	9.2
CHINOOK	7	11.9
DRUMHELLER	4	7.5
EDMONTON	104	9.8
FOOTHILLS	4	7.7
FORT MCMURRAY	4	5.6
HIGH LEVEL-FORT VERMILION	8	17.5
JASPER NATIONAL PARK	0	0.0
LEDUC-STRATHCONA	5	3.2
LETHBRIDGE	8	8.7
MINBURN-VERMILION	5	13.2
MOUNT VIEW	9	8.4
NORTH EASTERN ALBERTA	13	13.4
PEACE RIVER	9	11.1
RED DEER REGIONAL	17	7.9
SOUTHEASETRN ALBERTA	11	9.2
SOUTH PEACE	13	11.9
STONY PLAIN-LAC STE. ANNE	15	13.2
STURGEON	14	9.1
VEGREVILLE	1	2.6
WETOKA	3	5.0
ALBERTA	391	9.2

2.7

MAJOR CAUSES OF EARLY NEONATAL MORTALITY (Less Than 7 Days), MALES

1987 TO 1989

	CONGENITAL		RESPIRATORY		S.I.D.S.		OTHER		TOTAL	
HEALTH UNIT	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
ALBERTA EAST CENTRAL	2	40.0	1	20.0	0	0.0	2	20.0	5	100.0
ALBERTA WEST CENTRAL	1	16.7	1	16.7	0	0.0	4	66.6	6	100.0
ATHABASCA	2	66.7	0	0.0	0	0.0	1	33.3	3	100.0
BANFF NATIONAL PARK	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
BARONS-EUREKA-WARNER	1	25.0	1	25.0	0	0.0	2	50.0	4	100.0
BIG COUNTRY	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CALGARY	18	28.6	13	20.6	0	0.0	32	50.8	63	100.0
CHINOOK	1	20.0	1	20.0	0	0.0	3	60.0	5	100.0
DRUMHELLER	1	20.0	1	20.0	0	0.0	3	60.0	5	100.0
EDMONTON	22	31.4	16	22.9	0	0.0	32	45.7	70	100.0
FOOTHILLS	1	100.0	0	0.0	0	0.0	0	0.0	1	100.0
FORT MCMURRAY	1	25.0	2	50.0	0	0.0	1	25.0	4	100.0
HIGH LEVEL-FORT VERMILION	3	75.0	0	0.0	0	0.0	1	25.0	4	100.0
JASPER NATIONAL PARK	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LEDUC-STRATHCONA	3	50.0	0	0.0	0	0.0	3	50.0	6	100.0
LETHBRIDGE	1	16.7	2	33.3	0	0.0	3	50.0	6	100.0
MINBURN-VERMILION	2	66.7	0	0.0	0	0.0	1	33.3	3	100.0
MOUNT VIEW	5	55.6	0	0.0	0	0.0	4	44.4	9	100.0
NORTH EASTERN ALBERTA	6	66.7	1	11.1	0	0.0	2	22.2	9	100.0
PEACE RIVER	2	50.0	0	0.0	0	0.0	2	50.0	4	100.0
RED DEER REGIONAL	7	43.8	4	25.0	0	0.0	5	31.2	16	100.0
SOUTHEASETRN ALBERTA	6	75.0	0	0.0	0	0.0	2	25.0	8	100.0
SOUTH PEACE	2	33.3	3	50.0	0	0.0	1	16.7	6	100.0
STONY PLAIN-LAC STE. ANNE	5	41.7	0	0.0	0	0.0	7	58.3	12	100.0
STURGEON	5	55.6	1	11.1	0	0.0	3	33.3	9	100.0
VEGREVILLE	0	0.0	0	0.0	0	0.0	1	100.0	1	100.0
WETOKA	1	50.0	1	50.0	0	0.0	0	0.0	2	100.0
ALBERTA	98	37.5	48	18.4	0	0.0	115	44.1	261	100.0

2.8

MAJOR CAUSES OF EARLY NEONATAL MORTALITY (Less Than 7 Days), FEMALES

1987 TO 1989

	CONGENITAL		RESPIRATORY		S.I.D.S.		OTHER		TOTAL	
HEALTH UNIT	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
ALBERTA EAST CENTRAL	1	33.3	0	0.0	0	0.0	2	66.7	3	100.0
ALBERTA WEST CENTRAL	0	0.0	1	100.0	0	0.0	0	0.0	1	100.0
ATHABASCA	1	33.3	0	0.0	0	0.0	2	66.7	3	100.0
BANFF NATIONAL PARK	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
BARONS-EUREKA-WARNER	1	50.0	1	50.0	0	0.0	0	0.0	2	100.0
BIG COUNTRY	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CALGARY	15	30.6	9	18.4	0	0.0	25	51.0	49	100.0
CHINOOK	1	50.0	1	50.0	0	0.0	0	0.0	2	100.0
DRUMHELLER	0	0.0	1	50.0	0	0.0	1	50.0	2	100.0
EDMONTON	18	34.6	12	23.1	0	0.0	22	42.3	52	100.0
FOOTHILLS	1	25.0	1	25.0	0	0.0	2	50.0	4	100.0
FORT MCMURRAY	2	50.0	0	0.0	0	0.0	2	50.0	4	100.0
HIGH LEVEL-FORT VERMILION	2	40.0	0	0.0	0	0.0	3	60.0	5	100.0
JASPER NATIONAL PARK	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LEDUC-STRATHCONA	3	75.0	0	0.0	0	0.0	1	25.0	4	100.0
LETHBRIDGE	3	42.9	0	0.0	0	0.0	4	57.1	7	100.0
MINBURN-VERMILION	1	25.0	1	25.0	0	0.0	2	50.0	4	100.0
MOUNT VIEW	1	33.3	1	33.3	0	0.0	1	33.3	3	100.0
NORTH EASTERN ALBERTA	0	0.0	1	33.3	0	0.0	2	66.7	3	100.0
PEACE RIVER	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
RED DEER REGIONAL	3	60.0	0	0.0	0	0.0	2	40.0	5	100.0
SOUTHEASETRN ALBERTA	1	33.3	0	0.0	0	0.0	2	66.7	3	100.0
SOUTH PEACE	1	33.3	1	33.3	0	0.0	1	33.3	3	100.0
STONY PLAIN-LAC STE. ANNE	4	50.0	0	0.0	0	0.0	4	50.0	8	100.0
STURGEON	1	16.7	1	16.7	0	0.0	4	66.7	6	100.0
VEGREVILLE	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
WETOKA	0	0.0	0	0.0	0	0.0	1	100.0	1	100.0
ALBERTA	60	34.5	31	17.8	0	0.0	83	47.7	174	100.0

2.9

MAJOR CAUSES OF LATE NEONATAL AND POST NEONATAL MORTALITY (7 Days and Over), MALES

1987 TO 1989

	CONGENITAL		RESPIRATORY		S.I.D.S.		OTHER		TOTAL	
HEALTH UNIT	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
ALBERTA EAST CENTRAL	1	33.3	0	0.0	0	0.0	2	66.7	3	100.0
ALBERTA WEST CENTRAL	1	16.7	1	16.7	2	33.3	2	33.3	6	100.0
ATHABASCA	1	14.3	1	14.3	4	57.1	1	14.3	7	100.0
BANFF NATIONAL PARK	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
BARONS-EUREKA-WARNER	0	0.0	0	0.0	2	40.0	3	60.0	5	100.0
BIG COUNTRY	0	0.0	0	0.0	1	100.0	0	0.0	1	100.0
CALGARY	12	17.4	3	4.4	30	43.5	24	34.8	72	100.0
CHINOOK	0	0.0	0	0.0	1	20.0	4	80.0	5	100.0
DRUMHELLER	1	50.0	0	0.0	1	50.0	0	0.0	2	100.0
EDMONTON	17	20.5	1	1.2	33	39.8	32	38.5	83	100.0
FOOTHILLS	1	50.0	0	0.0	0	0.0	1	50.0	2	100.0
FORT MCMURRAY	1	16.7	0	0.0	0	0.0	5	83.3	6	100.0
HIGH LEVEL-FORT VERMILION	1	33.3	0	0.0	1	33.3	1	33.3	3	100.0
JASPER NATIONAL PARK	0	0.0	0	0.0	0	0.0	1	100.0	1	100.0
LEDUC-STRATHCONA	4	57.1	0	0.0	1	14.3	2	28.6	7	100.0
LETHBRIDGE	1	14.3	0	0.0	4	57.1	2	28.6	7	100.0
MINBURN-VERMILION	4	57.1	0	0.0	1	14.3	2	28.6	7	100.0
MOUNT VIEW	1	20.0	0	0.0	2	40.0	2	40.0	5	100.0
NORTH EASTERN ALBERTA	1	7.7	0	0.0	6	46.2	6	46.2	13	100.0
PEACE RIVER	0	0.0	0	0.0	2	66.7	1	33.3	3	100.0
RED DEER REGIONAL	1	9.1	1	9.1	2	18.2	7	63.6	11	100.0
SOUTHEASETRN ALBERTA	4	44.4	0	0.0	1	11.1	4	44.4	9	100.0
SOUTH PEACE	3	20.0	2	13.3	5	33.3	5	33.3	15	100.0
STONY PLAIN-LAC STE. ANNE	1	16.7	0	0.0	3	50.0	2	33.3	6	100.0
STURGEON	3	37.5	0	0.0	1	12.5	4	50.0	8	100.0
VEGREVILLE	0	0.0	0	0.0	0	0.0	1	100.0	1	100.0
WETOKA	1	20.0	0	0.0	1	20.0	3	60.0	5	100.0
ALBERTA	60	20.7	9	3.1	104	35.9	117	40.3	290	100.0

2.10

MAJOR CAUSES OF LATE NEONATAL AND POST NEONATAL MORTALITY (7 Days and Over), FEMALES

1987 TO 1989

	CONGENITAL		RESPIRATORY		S.I.D.S.		OTHER		TOTAL	
HEALTH UNIT	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
ALBERTA EAST CENTRAL	1	33.3	0	0.0	2	66.7	0	0.0	3	100.0
ALBERTA WEST CENTRAL	1	20.0	0	0.0	2	40.0	2	40.0	5	100.0
ATHABASCA	0	0.0	0	0.0	2	66.7	1	33.3	3	100.0
BANFF NATIONAL PARK	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
BARONS-EUREKA-WARNER	0	0.0	0	0.0	1	50.0	1	50.0	2	100.0
BIG COUNTRY	1	100.0	0	0.0	0	0.0	0	0.0	1	100.0
CALGARY	12	27.9	0	0.0	10	23.3	21	48.8	43	100.0
CHINOOK	4	57.1	0	0.0	1	14.3	2	28.6	7	100.0
DRUMHELLER	1	33.3	0	0.0	0	0.0	2	66.7	3	100.0
EDMONTON	20	30.8	1	1.5	22	33.8	22	33.8	65	100.0
FOOTHILLS	0	0.0	0	0.0	1	100.0	0	0.0	1	100.0
FORT MCMURRAY	0	0.0	0	0.0	1	20.0	4	80.0	5	100.0
HIGH LEVEL-FORT VERMILION	0	0.0	0	0.0	0	0.0	3	100.0	3	100.0
JASPER NATIONAL PARK	0	0.0	0	0.0	0	0.0	1	100.0	1	100.0
LEDUC-STRATHCONA	1	12.5	0	0.0	3	37.5	4	50.0	8	100.0
LETHBRIDGE	0	0.0	0	0.0	6	66.7	3	33.3	9	100.0
MINBURN-VERMILION	1	50.0	0	0.0	1	50.0	0	0.0	2	100.0
MOUNT VIEW	2	50.0	0	0.0	1	25.0	1	25.0	4	100.0
NORTH EASTERN ALBERTA	2	33.3	0	0.0	3	50.0	1	16.7	6	100.0
PEACE RIVER	0	0.0	0	0.0	0	0.0	2	100.0	2	100.0
RED DEER REGIONAL	3	30.0	0	0.0	4	40.0	3	30.0	10	100.0
SOUTHEASETRN ALBERTA	2	40.0	0	0.0	1	20.0	2	40.0	5	100.0
SOUTH PEACE	3	60.0	0	0.0	1	20.0	1	20.0	5	100.0
STONY PLAIN-LAC STE. ANNE	6	60.0	0	0.0	1	10.0	3	30.0	10	100.0
STURGEON	1	14.3	0	0.0	4	57.1	2	28.6	7	100.0
VEGREVILLE	1	100.0	0	0.0	0	0.0	0	0.0	1	100.0
WETOKA	2	40.0	0	0.0	2	40.0	1	20.0	5	100.0
ALBERTA	65	30.0	1	0.5	69	31.8	82	37.8	217	100.0

CHAPTER 3

MALE DEATHS

1989

DESCRIPTION OF TABLES

Chapter 3 deals with deaths in the male population for the year 1989, by health units of Alberta. Ideally, five-year age groups are used for the purpose of standardization. However, in this report somewhat broader age groups have been used. These have been defined by aggregating five-year age groups in such a way as to cover meaningful periods in the lifespan. For example, 5-14 for the school years, 15-24 for early adulthood, etc.

The age-specific male death rate (per 100,000 males) is defined by:

$$\frac{\text{number of deaths to males in age group}}{\text{number of males in age group}} \times 100{,}000$$

The age-standardized death rates in this chapter have been standardized to the estimated male population of Alberta in 1989. So for each health unit, the male age-standardized death rate for a given cause equals the death rate that would have been observed in that health unit if it had had the age distribution of males in Alberta as a whole in 1989.

The format for this chapter is basically the same as that used in Chapter 1. Following a description of the population by age group, there is a series of four page sections. Each section deals with a specific cause of death. Note that death rates should be interpreted with considerable caution. Since there are far fewer deaths than live births per year, and the deaths are spread out over both sexes and all age groups, the tables here are much sparser looking than those of Chapter 1. As a result, the confidence intervals for the age-standardized death rates are generally quite wide. To an even greater degree this remark applies to confidence intervals for age-specific death rates (not shown). When a confidence interval lower limit extended into the negative numbers, it has been reported as such; another approach would have been to arbitrarily set it equal to zero. In certain cases several health units were found to have identical (age-standardized) rates. When this happened, ranks for these health units were assigned randomly rather than giving each of the health units involved the same intermediate rank. For the most part, ties were due to several health units having no deaths due to a cause, and hence a rate of zero. Note that death rates are given per 100,000 males, whereas live birth rates are per 1,000 females.

The causes of death selected for study along with the rubrics according to the ICD-9 are as follows:

CAUSE OF DEATH	ICD-9RUBRIC
All Causes	1 - 999
All Cancer	140 - 208
Colon Cancer	153 - 154
Lung Cancer	162
Prostrate Cancer	185
Diabetes Mellitus	250
Ischemic Heart Disease	410 - 414
Cerebrovascular Disease	430 - 438
Pneumonia	480 - 486
Chronic Obstructive Lung Disease	490 - 493, 496
Liver Cirrhosis	571
Congenital Anomaly	740 - 759
Motor Vehicle Accidents	810 - 819
Suicide	950 - 959

The causes have been ordered in the table and in the chapter in ascending order of rubric number, except for prostate cancer which has been placed at the end of the Chapter. Because of this arrangement, the tables and figures in this Chapter correspond by page numbers.

In an attempt to concentrate even more attention on premature death, one might calculate years of life lost using only those deaths which occurred before a certain age and, eventually, consider only the years of life lost before this age limit. The indicator Potential Years of Life Lost (PYLL) is designed to take into account both of these two possibilities and is thus an excellent indicator of premature mortality.

More specifically, the indicator PYLL provides an estimate of the total years of life lost before age 70, by persons deceased between their 1st and 70th birthdays. For each death considered, the duration of life lost before age 70 is defined as the time interval separating death from the 70th birthday. For a given cause, the total potential years of life lost depend only on the number and mean age of its victims between age 1 and 70[7].

Thus, Table 3.59 shows potential years of life lost from selected preventable causes. Charts 3.60 and 3.61 are presented to illustrate this data.

Since there are 27 health units in the province of Alberta, and also, given the small population size of quite a few health units, a comparison of distribution of PYLL by gender and causes would be more appropriate on a regional basis.

The regions selected for this purpose are the ones adopted by the Health Unit Association of Alberta and currently have no statutory basis.

3.1

NUMBER IN MALE POPULATION, 1989

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	469	1754	4375	4088	4158	3613	2637	2576	2323	1579	27572
ALBERTA WEST CENTRAL	369	1454	3813	3324	4085	3104	2088	1403	740	413	20793
ATHABASCA	367	1232	3117	2761	2595	2142	1459	1293	743	520	16229
BANFF NATIONAL PARK	42	169	329	995	1099	650	332	254	106	57	4033
BARONS-EUREKA-WARNER	378	1602	3832	3315	3115	2651	2016	1647	1089	717	20362
BIG COUNTRY	131	422	1091	1009	1111	747	661	701	478	306	6657
CALGARY	5707	21204	44304	50580	73273	53819	31181	23319	12975	6578	322940
CHINOOK	359	1468	3840	3087	2928	2648	1864	1716	1466	1020	20396
DRUMHELLER	286	1147	2876	2654	2713	2518	1468	1407	1146	718	16933
EDMONTON	5241	19068	37731	47490	62250	41218	27688	23163	13572	7685	285114
FOOTHILLS	263	1186	2892	2259	2611	2823	1720	1386	1032	697	16869
FORT MCMURRAY	395	1664	3742	3114	4538	3722	1555	547	116	72	19465
HIGH LEVEL-FORT VERMILION	209	813	1748	1345	1276	875	525	353	181	79	7404
JASPER NATIONAL PARK	29	98	172	467	608	303	135	147	50	61	2070
LEDUC-STRATHCONA	880	3646	10368	8228	8290	10445	5692	3403	1747	907	53606
LETHBRIDGE	416	1841	4427	4609	5046	4099	2665	2471	2083	1359	29016
MINBURN-VERMILION	359	1407	3291	2960	3371	2671	1819	1642	1276	915	19711
MOUNT VIEW	543	2284	5543	4389	5610	5301	3165	2278	1352	880	31345
NORTH EASTERN ALBERTA	492	1943	4336	4123	4517	3262	2297	1767	1309	736	24782
PEACE RIVER	375	1570	3609	3352	3250	2572	1987	1425	864	706	19710
RED DEER REGIONAL	1092	4464	9836	9406	11964	8919	5463	4285	3178	1937	60544
SOUTHEASTERN ALBERTA	668	2510	6369	5956	6988	5247	3530	3138	2521	1393	38320
SOUTH PEACE	653	2597	6029	5386	6264	4835	3010	2212	1253	918	33157
STONY PLAIN-LAC STE. ANNE	632	2551	6543	4923	5812	5975	3564	2355	1277	726	34358
STURGEON	823	3513	9270	7258	8090	8918	5020	3452	2016	1221	49581
VEGREVILLE	213	852	2314	1870	2063	2022	1474	1502	1535	1128	14973
WETOKA	324	1243	3067	2765	2857	2726	1877	1737	1318	946	18860
ALBERTA	21715	83702	188864	191713	240490	187825	116892	91579	57746	34274	1214800

3.2

AGE DISTRIBUTION (IN %) MALES, 1989

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	1.7	6.4	15.9	14.8	15.1	13.1	9.6	9.3	8.4	5.7
ALBERTA WEST CENTRAL	1.8	7.0	18.3	16.0	19.7	14.9	10.0	6.8	3.6	2.0
ATHABASCA	2.3	7.6	19.2	17.0	16.0	13.2	9.0	8.0	4.6	3.2
BANFF NATIONAL PARK	1.0	4.2	8.2	24.7	27.3	16.1	8.2	6.3	2.6	1.4
BARONS-EUREKA-WARNER	1.9	7.9	18.8	16.3	15.3	13.0	9.9	8.1	5.4	3.5
BIG COUNTRY	2.0	6.3	16.4	15.2	16.7	11.2	9.9	10.5	7.2	4.6
CALGARY	1.8	6.6	13.7	15.7	22.7	16.7	9.7	7.2	4.0	2.0
CHINOOK	1.8	7.2	18.8	15.1	14.4	13.0	9.1	8.4	7.2	5.0
DRUMHELLER	1.7	6.8	17.0	15.7	16.0	14.9	8.7	8.3	6.8	4.2
EDMONTON	1.8	6.7	13.2	16.7	21.8	14.5	9.7	8.1	4.8	2.7
FOOTHILLS	1.6	7.0	17.1	13.4	15.5	16.7	10.2	8.2	6.1	4.1
FORT MCMURRAY	2.0	8.6	19.2	16.0	23.3	19.1	8.0	2.8	0.6	0.4
HIGH LEVEL-FORT VERMILION	2.8	11.0	23.6	18.2	17.2	11.8	7.1	4.8	2.4	1.1
JASPER NATIONAL PARK	1.4	4.7	8.3	22.6	29.4	14.6	6.5	7.1	2.4	3.0
LEDUC-STRATHCONA	1.6	6.8	19.3	15.4	15.5	19.5	10.6	6.4	3.3	1.7
LETHBRIDGE	1.4	6.3	15.3	15.9	17.4	14.1	9.2	8.5	7.2	4.7
MINBURN-VERMILION	1.8	7.1	16.7	15.0	17.1	13.6	9.2	8.3	6.5	4.6
MOUNT VIEW	1.7	7.3	17.7	14.0	17.9	16.9	10.1	7.3	4.3	2.8
NORTH EASTERN ALBERTA	2.0	7.8	17.5	16.6	18.2	13.2	9.3	7.1	5.3	3.0
PEACE RIVER	1.9	8.0	18.3	17.0	16.5	13.1	10.1	7.2	4.4	3.6
RED DEER REGIONAL	1.8	7.4	16.3	15.5	19.8	14.7	9.0	7.1	5.3	3.2
SOUTHEASTERN ALBERTA	1.7	6.6	16.6	15.5	18.2	13.7	9.2	8.2	6.6	3.6
SOUTH PEACE	2.0	7.8	18.2	16.2	18.9	14.6	9.1	6.7	3.8	2.8
STONY PLAIN-LAC STE. ANNE	1.8	7.4	19.0	14.3	16.9	17.4	10.4	6.9	3.7	2.1
STURGEON	1.7	7.1	18.7	14.6	16.3	18.0	10.1	7.0	4.1	2.5
VEGREVILLE	1.4	5.7	15.5	12.5	13.8	13.5	9.8	10.0	10.3	7.5
WETOKA	1.7	6.6	16.3	14.7	15.2	14.5	10.0	9.2	7.0	5.0
ALBERTA	1.8	6.9	15.6	15.8	19.8	15.5	9.6	7.5	4.8	2.8

3.3

NUMBER OF MALE DEATHS, 1989

ALL CAUSES

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	4	1	2	7	7	5	4	27	74	142	273
ALBERTA WEST CENTRAL	4	0	1	3	7	6	9	22	20	35	107
ATHABASCA	3	0	1	5	5	11	5	20	21	45	116
BANFF NATIONAL PARK	0	0	0	0	0	0	3	3	1	5	12
BARONS-EUREKA-WARNER	1	2	1	6	3	7	10	21	29	64	144
BIG COUNTRY	1	0	0	5	2	2	1	7	5	21	44
CALGARY	49	5	9	43	74	77	129	279	395	657	1717
CHINOOK	6	1	0	5	5	9	12	25	41	100	204
DRUMHELLER	0	2	0	4	4	3	8	22	28	51	122
EDMONTON	44	12	7	44	87	83	127	255	431	755	1845
FOOTHILLS	0	0	3	3	2	4	6	14	33	63	128
FORT MCMURRAY	2	0	0	5	3	5	7	6	4	4	36
HIGH LEVEL-FORT VERMILION	2	0	1	7	2	1	4	4	6	8	35
JASPER NATIONAL PARK	0	0	0	0	1	0	1	3	1	2	8
LEDUC-STRATHCONA	6	1	4	6	12	7	20	28	49	94	227
LETHBRIDGE	5	3	1	3	7	5	9	25	51	142	251
MINBURN-VERMILION	0	2	0	4	3	4	5	16	26	69	129
MOUNT VIEW	3	2	3	7	5	9	10	23	50	101	213
NORTH EASTERN ALBERTA	6	2	0	6	7	10	12	22	34	69	168
PEACE RIVER	2	3	2	6	6	12	9	21	29	75	165
RED DEER REGIONAL	9	4	3	11	14	20	17	55	90	190	413
SOUTHEASTERN ALBERTA	7	2	1	4	9	6	16	39	86	138	308
SOUTH PEACE	14	3	3	8	8	7	10	24	41	71	189
STONY PLAIN-LAC STE. ANNE	5	1	0	11	6	9	17	20	49	54	172
STURGEON	9	2	4	8	9	14	30	27	66	133	302
VEGREVILLE	0	0	0	2	4	3	7	16	45	103	180
WETOKA	2	0	0	0	4	5	2	17	41	72	143
ALBERTA	184	48	46	213	296	324	490	1041	1746	3263	7651

3.4

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1989

ALL CAUSES

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	853	57	46	171	168	138	152	1048	3186	8993
ALBERTA WEST CENTRAL	1084	0	26	90	171	193	431	1568	2703	8475
ATHABASCA	817	0	32	181	193	514	343	1547	2826	8654
BANFF NATIONAL PARK	0	0	0	0	0	0	904	1181	943	8772
BARONS-EUREKA-WARNER	265	125	26	181	96	264	496	1275	2663	8926
BIG COUNTRY	763	0	0	496	180	268	151	999	1046	6863
CALGARY	859	24	20	85	101	143	414	1196	3044	9988
CHINOOK	1671	68	0	162	171	340	644	1457	2797	9804
DRUMHELLER	0	174	0	151	147	119	545	1564	2443	7103
EDMONTON	840	63	19	93	140	201	459	1101	3176	9824
FOOTHILLS	0	0	104	133	77	142	349	1010	3198	9039
FORT MCMURRAY	506	0	0	161	66	134	450	1097	3448	5556
HIGH LEVEL-FORT VERMILION	957	0	57	520	157	114	762	1133	3315	10127
JASPER NATIONAL PARK	0	0	0	0	164	0	741	2041	2000	3279
LEDUC-STRATHCONA	682	27	39	73	145	67	351	823	2805	10364
LETHBRIDGE	1202	163	23	65	139	122	338	1012	2448	10449
MINBURN-VERMILION	0	142	0	135	89	150	275	974	2038	7541
MOUNT VIEW	552	88	54	159	89	170	316	1010	3698	11477
NORTH EASTERN ALBERTA	1220	103	0	146	155	307	522	1245	2597	9375
PEACE RIVER	533	191	55	179	185	467	453	1474	3356	10623
RED DEER REGIONAL	824	90	31	117	117	224	311	1284	2832	9809
SOUTHEASTERN ALBERTA	1048	80	16	67	129	114	453	1243	3411	9907
SOUTH PEACE	2144	116	50	149	128	145	332	1085	3272	7734
STONY PLAIN-LAC STE. ANNE	791	39	0	223	103	151	477	849	3837	7438
STURGEON	1094	57	43	110	111	157	598	782	3274	10893
VEGREVILLE	0	0	0	107	194	148	475	1065	2932	9131
WETOKA	617	0	0	0	140	183	107	979	3111	7611
ALBERTA	847	57	24	111	123	173	419	1137	3024	9520

3.5

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1989

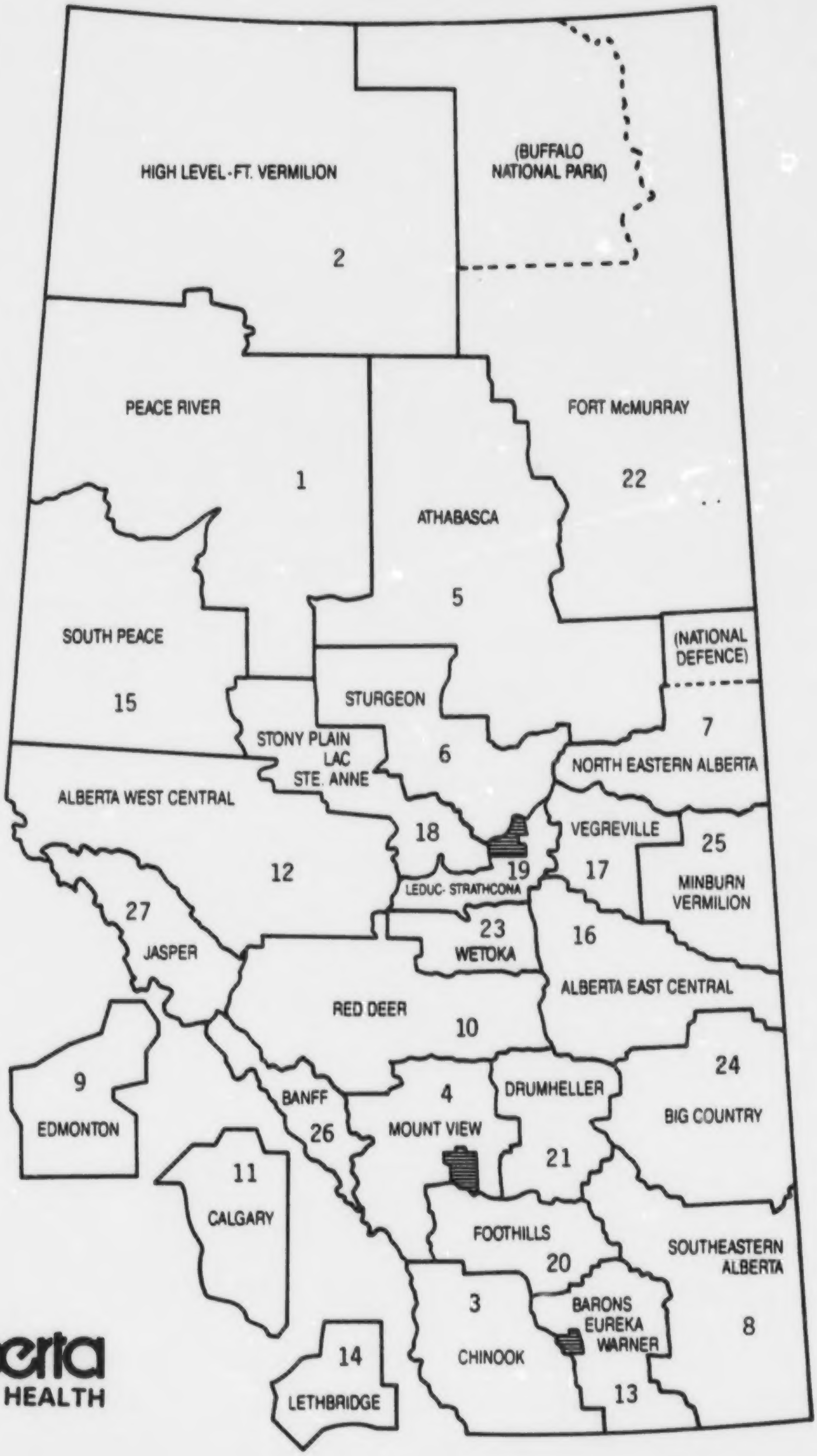
ALL CAUSES

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	607	531	683	16	0.96	.
ALBERTA WEST CENTRAL	629	508	749	12	1.00	.
ATHABASCA	694	567	821	5	1.10	.
BANFF NATIONAL PARK	468	195	741	26	0.74	.
BARONS-EUREKA-WARNER	628	525	732	13	1.00	.
BIG COUNTRY	502	348	656	24	0.80	.
CALGARY	632	602	662	11	1.00	.
CHINOOK	728	623	832	3	1.16	YES
DRUMHELLER	570	467	674	21	0.90	.
EDMONTON	651	621	681	9	1.03	.
FOOTHILLS	591	487	695	20	0.94	.
FORT MCMURRAY	515	278	752	22	0.82	.
HIGH LEVEL-FORT VERMILION	759	485	1033	2	1.20	.
JASPER NATIONAL PARK	445	121	769	27	0.71	.
LEDUC-STRATHCONA	592	514	671	19	0.94	.
LETHBRIDGE	613	535	691	14	0.97	.
MINBURN-VERMILION	481	396	567	25	0.76	.
MOUNT VIEW	700	605	794	4	1.11	.
NORTH EASTERN ALBERTA	662	562	762	7	1.05	.
PEACE RIVER	782	661	903	1	1.24	YES
RED DEER REGIONAL	640	578	702	10	1.02	.
SOUTHEASTERN ALBERTA	659	585	734	8	1.05	.
SOUTH PEACE	613	525	700	15	0.97	.
STONY PLAIN-LAC STE. ANNE	598	508	688	18	0.95	.
STURGEON	673	597	749	6	1.07	.
VEGREVILLE	601	504	698	17	0.95	.
WETOKA	514	427	601	23	0.82	.
ALBERTA	630	616	644			

3.6

ALL CAUSES, MALES, 1989

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
2
(BUFFALO NATIONAL PARK)
PEACE RIVER
1
FORT McMURRAY
22
ATHABASCA
5
SOUTH PEACE
15
(NATIONAL DEFENCE)
STURGEON
6
7
STONY PLAIN LAC STE. ANNE
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
12
18
19
VEGREVILLE
17
25
MINBURN VERMILION
LEDUC- STRATHCONA
27
JASPER
23
WETOKA
16
ALBERTA EAST CENTRAL
RED DEER
10
9
EDMONTON
BANFF
26
4
MOUNT VIEW
DRUMHELLER
21
24
BIG COUNTRY
11
CALGARY
FOOTHILLS
20
SOUTHEASTERN ALBERTA
8
3
CHINOOK
BARONS EUREKA WARNER
13
14
LETHBRIDGE

Alberta
HEALTH

3.7

NUMBER OF MALE DEATHS, 1989

ALL CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	1	0	2	1	2	7	21	30	64
ALBERTA WEST CENTRAL	0	0	0	0	0	0	1	10	7	8	26
ATHABASCA	0	0	0	0	0	1	1	8	8	5	23
BANFF NATIONAL PARK	0	0	0	0	0	0	1	2	0	0	3
BARONS-EUREKA-WARNER	0	1	0	0	0	1	2	6	13	11	34
BIG COUNTRY	0	0	0	0	0	0	0	3	0	4	7
CALGARY	0	1	0	2	3	10	45	107	151	138	457
CHINOOK	0	0	0	0	0	0	1	9	10	20	40
DRUMHELLER	0	0	0	0	0	0	2	7	8	7	24
EDMONTON	0	3	2	5	4	17	28	80	124	177	440
FOOTHILLS	0	0	1	0	0	1	3	6	12	17	40
FORT MCMURRAY	0	0	0	0	1	0	2	2	1	1	7
HIGH LEVEL-FORT VERMILION	0	0	1	1	0	0	2	1	3	1	9
JASPER NATIONAL PARK	0	0	0	0	1	0	0	2	1	1	5
LEDUC-STRATHCONA	0	0	0	0	1	3	4	9	15	17	49
LETHBRIDGE	0	1	0	0	0	2	3	5	20	29	60
MINBURN-VERMILION	0	0	0	0	1	0	2	6	10	10	29
MOUNT VIEW	0	1	1	0	1	4	4	10	20	18	59
NORTH EASTERN ALBERTA	0	0	0	0	0	0	1	7	10	18	36
PEACE RIVER	0	0	0	0	0	1	4	11	12	16	44
RED DEER REGIONAL	1	1	0	0	2	7	7	22	24	38	102
SOUTHEASTERN ALBERTA	0	0	0	0	0	1	6	16	29	28	80
SOUTH PEACE	0	0	0	0	0	0	2	7	13	15	37
STONY PLAIN-LAC STE. ANNE	0	0	0	0	1	2	1	9	16	19	48
STURGEON	0	0	1	0	0	4	11	8	22	23	69
VEGREVILLE	0	0	0	0	1	1	2	1	15	17	37
WETOKA	0	0	0	0	0	1	0	5	12	12	30
ALBERTA	1	8	7	8	18	57	137	366	577	680	1859

3.8

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1989

ALL CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	23	0	48	28	76	272	904	1900
ALBERTA WEST CENTRAL	0	0	0	0			48	713	946	1937
ATHABASCA	0	0	0	0	0	47	69	619	1077	962
BANFF NATIONAL PARK	0	0	0	0	0	0	301	787	0	0
BARONS-EUREKA-WARNER	0	62	0	0	0	38	99	364	1194	1534
BIG COUNTRY	0	0	0	0	0	0	0	428	0	1307
CALGARY	0	5	0	4	4	19	144	459	1164	2098
CHINOOK	0	0	0	0	0	0	54	524	682	1961
DRUMHELLER	0	0	0	0	0	0	136	498	698	975
EDMONTON	0	16	5	11	6	41	101	345	914	2303
FOOTHILLS	0	0	35	0	0	35	174	433	1163	2439
FORT MCMURRAY	0	0	0	0	22	0	129	366	862	1389
HIGH LEVEL-FORT VERMILION	0	0	57	74	0	0	381	283	1657	1266
JASPER NATIONAL PARK	0	0	0	0	164	0	0	1361	2000	1639
LEDUC-STRATHCONA	0	0	0	0	12	29	70	264	859	1874
LETHBRIDGE	0	54	0	0	0	49	113	202	960	2134
MINBURN-VERMILION	0	0	0	0	30	0	110	365	784	1093
MOUNT VIEW	0	44	18	0	18	75	126	439	1479	2045
NORTH EASTERN ALBERTA	0	0	0	0	0	0	44	396	764	2446
PEACE RIVER	0	0	0	0	0	39	201	772	1389	2266
RED DEER REGIONAL	92	22	0	0	17	78	128	513	755	1962
SOUTHEASTERN ALBERTA	0	0	0	0	0	19	170	510	1150	2010
SOUTH PEACE	0	0	0	0	0	0	66	316	1038	1634
STONY PLAIN-LAC STE. ANNE	0	0	0	0	17	33	28	382	1253	2617
STURGEON	0	0	11	0	0	45	219	232	1091	1884
VEGREVILLE	0	0	0	0	48	49	136	67	977	1507
WETOKA	0	0	0	0	0	37	0	288	910	1268
ALBERTA	5	10	4	4	7	30	117	400	999	1984

3.9

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1989

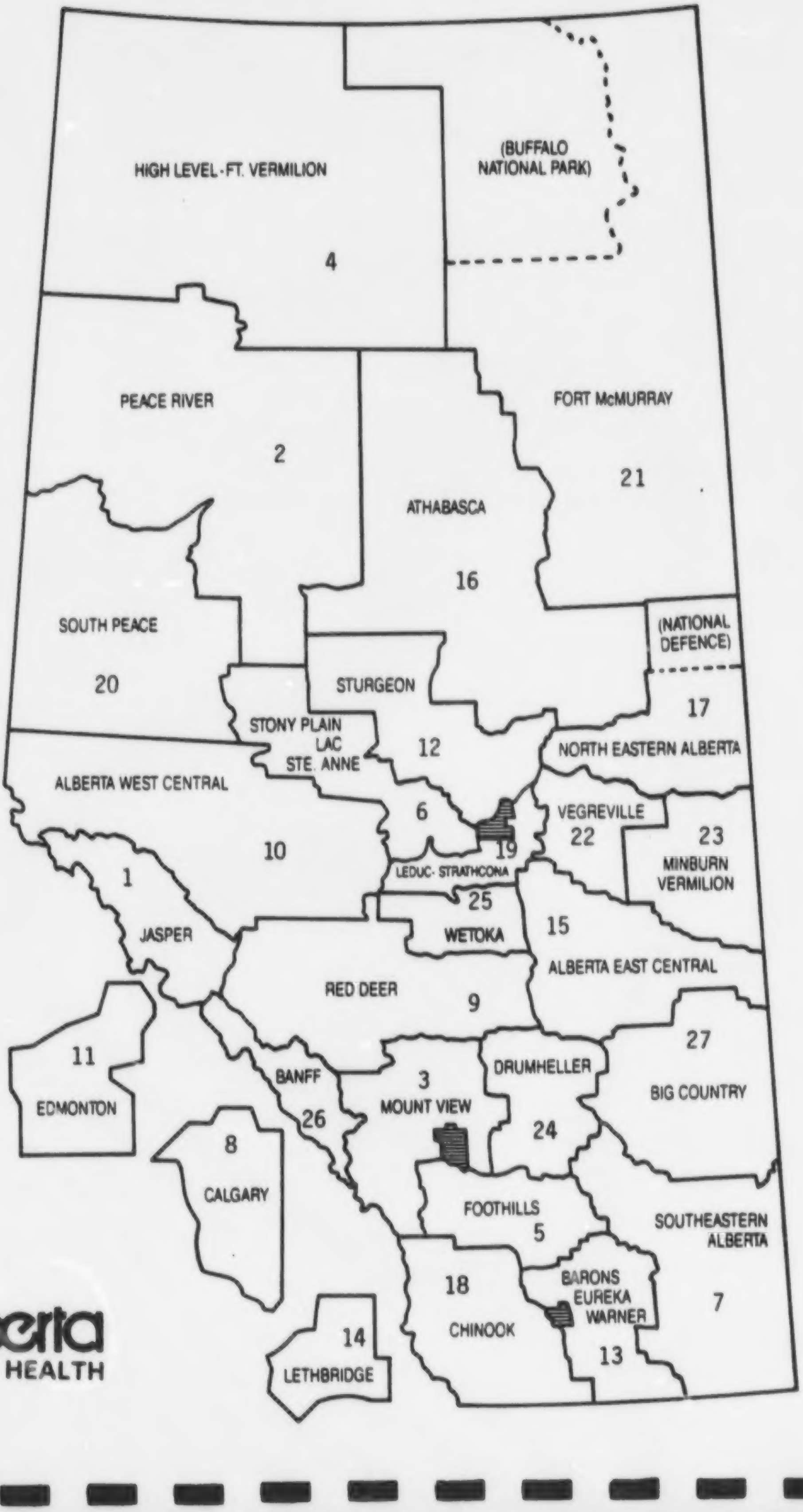
ALL CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	142	105	178	15	0.93	.
ALBERTA WEST CENTRAL	158	97	219	10	1.03	.
ATHABASCA	139	82	196	16	0.91	.
BANFF NATIONAL PARK	88	-12	188	26	0.58	.
BARONS-EUREKA-WARNER	147	98	197	13	0.96	.
BIG COUNTRY	69	18	121	27	0.45	.
CALGARY	168	152	183	8	1.10	YES
CHINOOK	132	90	174	18	0.86	.
DRUMHELLER	111	66	157	24	0.73	.
EDMONTON	155	141	170	11	1.01	.
FOOTHILLS	184	127	242	5	1.20	.
FORT MCMURRAY	124	5	244	21	0.81	.
HIGH LEVEL-FORT VERMILION	193	59	327	4	1.26	.
JASPER NATIONAL PARK	276	17	536	1	1.80	.
LEDUC-STRATHCONA	127	91	164	19	0.83	.
LETHBRIDGE	143	106	180	14	0.93	.
MINBURN-VERMILION	112	70	154	23	0.73	.
MOUNT VIEW	194	145	244	3	1.27	.
NORTH EASTERN ALBERTA	139	94	185	17	0.91	.
PEACE RIVER	214	150	277	2	1.40	YES
RED DEER REGIONAL	161	130	192	9	1.05	.
SOUTHEASTERN ALBERTA	169	132	207	7	1.10	.
SOUTH PEACE	126	85	166	20	0.82	.
STONY PLAIN-LAC STE. ANNE	173	124	223	6	1.13	.
STURGEON	152	116	188	12	0.99	.
VEGREVILLE	124	80	169	22	0.81	.
WETOKA	106	68	145	25	0.69	.
ALBERTA	153	146	160			

3.10

ALL CANCER, MALES, 1989

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
4
(BUFFALO NATIONAL PARK)
PEACE RIVER
2
FORT McMURRAY
21
ATHABASCA
16
SOUTH PEACE
20
(NATIONAL DEFENCE)
STURGEON
STONY PLAIN LAC STE. ANNE
12
17
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
6
VEGREVILLE
22
23
MINBURN VERMILION
10
19
1
LEDUC- STRATHCONA
25
JASPER
WETOKA
15
ALBERTA EAST CENTRAL
RED DEER
9
11
EDMONTON
27
DRUMHELLER
BANFF
3
MOUNT VIEW
BIG COUNTRY
26
24
8
CALGARY
FOOTHILLS
5
SOUTHEASTERN ALBERTA
18
BARONS EUREKA WARNER
7
CHINOOK
14
LETHBRIDGE
13

Alberta
HEALTH

3.11

NUMBER OF MALE DEATHS, 1989

COLON CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	1	1	2	4
ALBERTA WEST CENTRAL	0	0	0	0	0	0	1	1	2	1	5
ATHABASCA	0	0	0	0	0	0	0	0	2	0	2
BANFF NATIONAL PARK	0	0	0	0	0	0	0	1	0	0	1
BARONS-EUREKA-WARNER	0	0	0	0	0	0	1	1	1	2	5
BIG COUNTRY	0	0	0	0	0	0	0	0	0	1	1
CALGARY	0	0	0	0	0	0	4	11	11	13	39
CHINOOK	0	0	0	0	0	0	0	0	2	2	4
DRUMHELLER	0	0	0	0	0	0	0	1	1	0	2
EDMONTON	0	0	0	0	0	1	1	8	10	28	48
FOOTHILLS	0	0	0	0	0	0	0	0	1	1	2
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	1	0	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	1	1	0	2	1	3	8
LETHBRIDGE	0	0	0	0	0	0	0	1	4	7	12
MINBURN-VERMILION	0	0	0	1	1	0	0	0	0	0	1
MOUNT VIEW	0	0	0	0	0	0	0	0	2	1	3
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	1	2	3
PEACE RIVER	0	0	0	0	0	0	1	0	1	1	3
RED DEER REGIONAL	0	0	0	0	0	0	0	2	3	5	10
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	2	1	3	5	11
SOUTH PEACE	0	0	0	0	0	0	0	2	3	2	7
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	3	3	6
STURGEON	0	0	0	0	0	0	4	1	2	4	11
VEGREVILLE	0	0	0	0	0	0	1	0	0	2	3
WETOKA	0	0	0	0	0	0	0	1	1	2	4
ALBERTA	0	0	0	0	2	2	15	34	56	87	196

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1989

COLON CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	39	43	127
ALBERTA WEST CENTRAL	0	0	0	0	0	0	48	71	270	242
ATHABASCA	0	0	0	0	0	0	0	0	269	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	394	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	50	61	92	279
BIG COUNTRY	0	0	0	0	0	0	0	0	0	327
CALGARY	0	0	0	0	0	0	13	47	85	198
CHINOOK	0	0	0	0	0	0	0	0	136	196
DRUMHELLER	0	0	0	0	0	0	0	71	87	0
EDMONTON	0	0	0	0	0	2	4	35	74	364
FOOTHILLS	0	0	0	0	0	0	0	0	97	143
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	552	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	12	10	0	59	57	331
LETHBRIDGE	0	0	0	0	0	0	0	40	192	515
MINBURN-VERMILION	0	0	0	0	30	0	0	0	0	0
MOUNT VIEW	0	0	0	0	0	0	0	0	148	114
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	76	272
PEACE RIVER	0	0	0	0	0	0	50	0	116	142
RED DEER REGIONAL	0	0	0	0	0	0	0	47	94	258
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	57	32	119	359
SOUTH PEACE	0	0	0	0	0	0	0	90	239	218
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	235	413
STURGEON	0	0	0	0	0	0	80	29	99	328
VEGREVILLE	0	0	0	0	0	0	68	0	0	177
WETOKA	0	0	0	0	0	0	0	58	76	211
ALBERTA	0	0	0	0	1	1	13	37	97	254

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1989

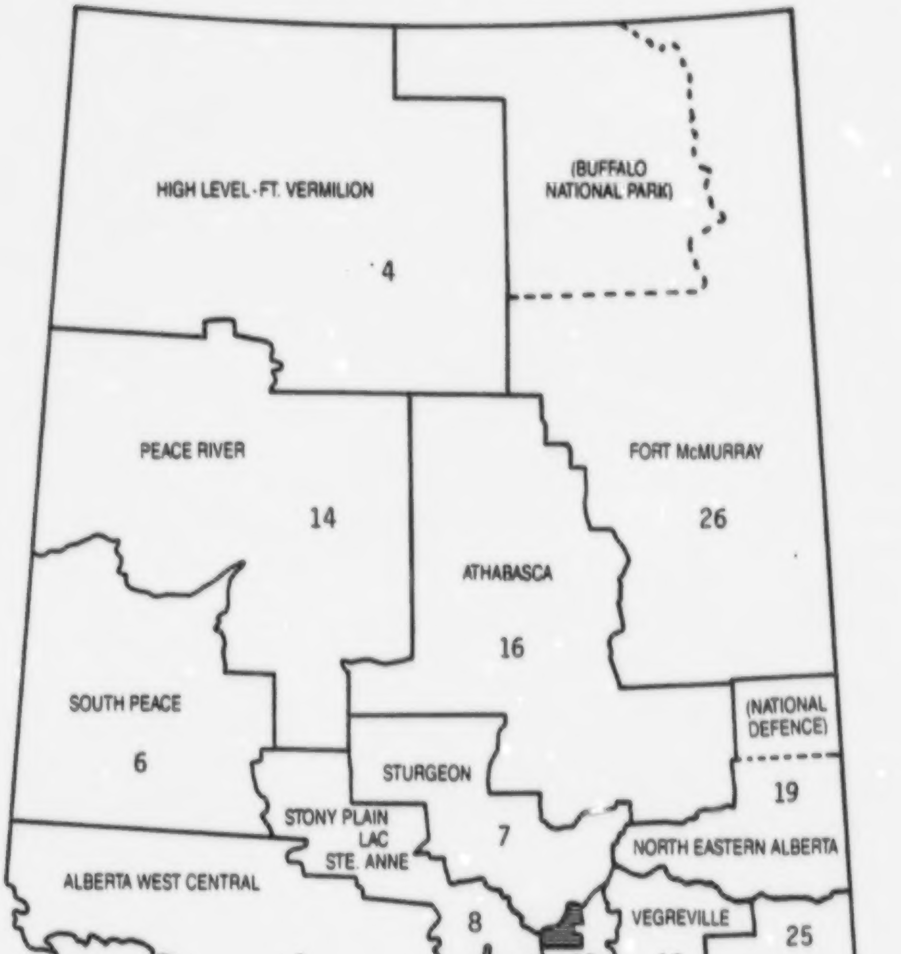
COLON CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	9	0	17	22	0.56	.
ALBERTA WEST CENTRAL	30	3	56	1	1.88	.
ATHABASCA	13	-5	31	16	0.81	.
BANFF NATIONAL PARK	30	-28	88	2	1.88	.
BARONS-EUREKA-WARNER	22	3	41	9	1.38	.
BIG COUNTRY	9	-9	27	23	0.56	.
CALGARY	14	10	19	13	0.88	.
CHINOOK	12	0	24	17	0.75	.
DRUMHELLER	10	4	23	0	0.63	.
EDMONTON	17	12	22	11	1.06	.
FOOTHILLS	9	3	21	24	0.56	.
FORT MCMURRAY	0	0	0	26	0.00	.
HIGH LEVEL-FORT VERMILION	26	-25	78	4	1.63	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	20	6	35	10	1.25	.
LETHBRIDGE	27	11	42	3	1.69	.
MINBURN-VERMILION	6	-6	17	25	0.38	.
MOUNT VIEW	10	-1	22	21	0.63	.
NORTH EASTERN ALBERTA	11	-1	24	19	0.69	.
PEACE RIVER	14	-2	31	14	0.88	.
RED DEER REGIONAL	15	6	25	12	0.94	.
SOUTHEASTERN ALBERTA	24	10	38	5	1.50	.
SOUTH PEACE	24	6	42	6	1.50	.
STONY PLAIN-LAC STE. ANNE	23	5	41	8	1.44	.
STURGEON	24	10	38	7	1.50	.
VEGREVILLE	12	3	26	18	0.75	.
WETOKA	14	0	28	15	0.88	.
ALBERTA	16	14	18			

3.14

COLON CANCER, MALES, 1989

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
4
(BUFFALO NATIONAL PARK)
PEACE RIVER
14
FORT McMURRAY
26
ATHABASCA
16
SOUTH PEACE
6
(NATIONAL DEFENCE)
STURGEON
19
STONY PLAIN LAC STE. ANNE
7
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
8
VEGREVILLE
25
1
10
18
MINBURN VERMILION
LEDUC- STRATHCONA
27
15
22
JASPER
WETOKA
ALBERTA EAST CENTRAL
RED DEER
12
11
23
21
DRUMHELLER
BANFF
BIG COUNTRY
MOUNT VIEW
2
EDMONTON
20
13
CALGARY
FOOTHILLS
SOUTHEASTERN ALBERTA
24
17
BARONS EUREKA WARNER
5
3
CHINOOK
9
LETHBRIDGE

Alberta
HEALTH

NUMBER OF MALE DEATHS, 1989

LUNG CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	2	10	6	18
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	3	1	3	7
ATHABASCA	0	0	0	0	0	0	0	4	2	1	7
BANFF NATIONAL PARK	0	0	0	0	0	0	0	1	0	0	1
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	1	2	1	8
BIG COUNTRY	0	0	0	0	0	0	0	2	0	1	3
CALGARY	0	0	0	0	0	1	11	43	59	49	163
CHINOOK	0	0	0	0	0	0	1	5	2	6	14
DRUMHELLER	0	0	0	0	0	0	1	2	3	2	8
EDMONTON	0	0	0	0	0	7	13	28	46	49	143
FOOTHILLS	0	0	0	0	0	0	2	2	4	5	13
FORT MCMURRAY	0	0	0	0	0	0	1	1	0	0	2
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	1	0	0	0	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	2	0	0	2
LEDUC-STRATHCONA	0	0	0	0	0	0	1	2	5	6	14
LETHBRIDGE	0	0	0	0	0	1	1	0	5	8	15
MINBURN-VERMILION	0	0	0	0	0	0	0	2	4	4	10
MOUNT VIEW	0	0	0	0	0	0	1	3	6	3	13
NORTH EASTERN ALBERTA	0	0	0	0	0	0	1	3	3	7	14
PEACE RIVER	0	0	0	0	0	1	0	5	3	5	14
RED DEER REGIONAL	0	0	0	0	0	0	1	11	9	5	26
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	1	3	11	4	19
SOUTH PEACE	0	0	0	0	0	0	1	2	5	3	11
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	1	1	5	11
STURGEON	0	0	0	0	0	1	1	2	6	8	18
VEGREVILLE	0	0	0	0	0	0	0	0	0	6	10
WETOKA	0	0	0	0	0	0	0	1	5	5	11
ALBERTA	0	0	0	0	0	11	40	135	200	190	576

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1989

LUNG CANCER

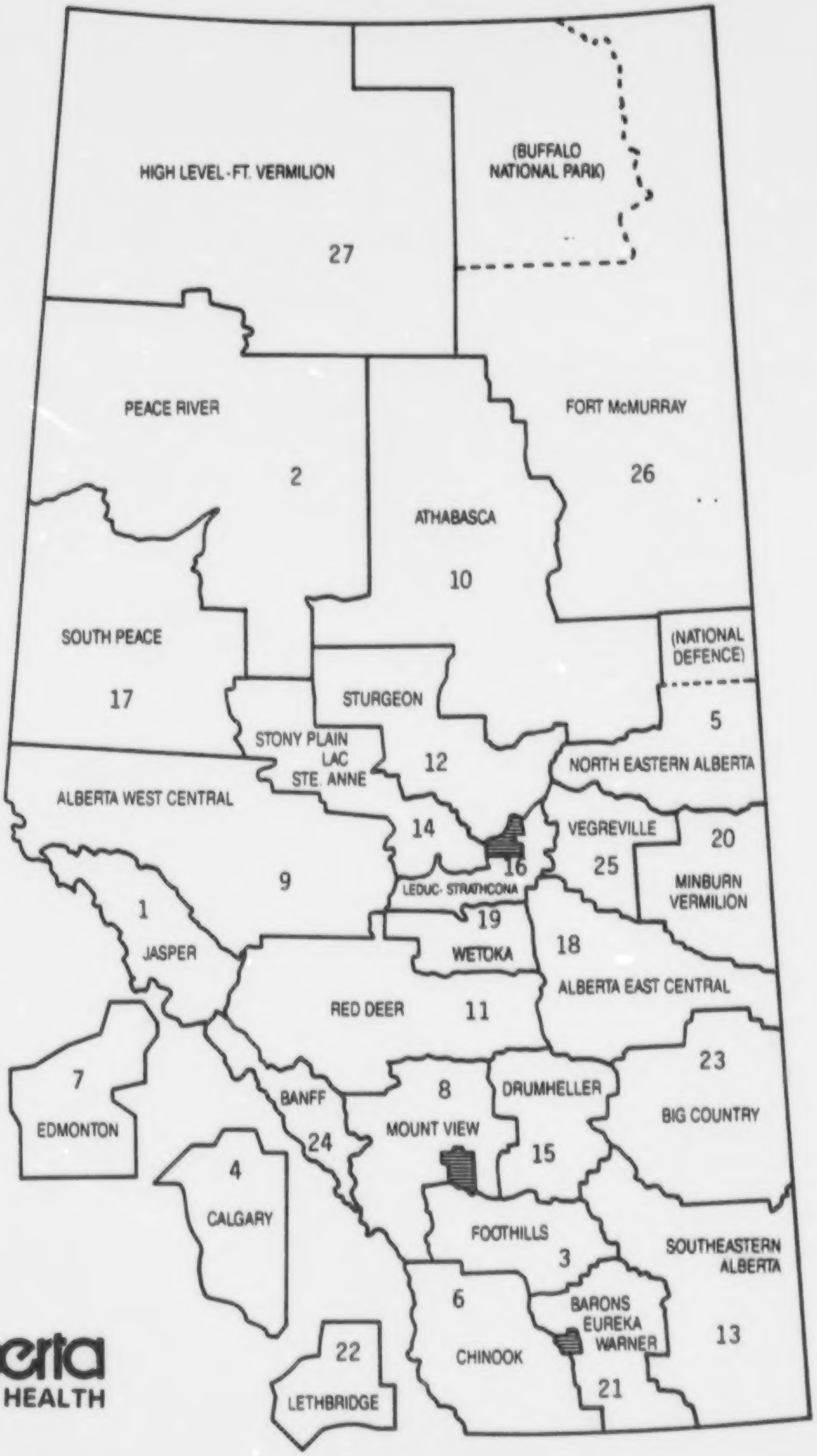
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	78	430	380
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	214	135	726
ATHABASCA	0	0	0	0	0	0	0	309	269	192
BANFF NATIONAL PARK	0	0	0	0	0	0	0	394	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	50	121	367	139
BIG COUNTRY	0	0	0	0	0	0	0	285	0	327
CALGARY	0	0	0	0	0	2	35	184	455	745
CHINOOK	0	0	0	0	0	0	54	291	136	588
DRUMHELLER	0	0	0	0	0	0	68	142	262	279
EDMONTON	0	0	0	0	0	17	47	121	339	638
FOOTHILLS	0	0	0	0	0	0	116	144	388	717
FORT MCMURRAY	0	0	0	0	0	0	64	183	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	190	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	1361	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	18	59	286	662
LETHBRIDGE	0	0	0	0	0	24	38	0	240	589
MINBURN-VERMILION	0	0	0	0	0	0	0	122	313	437
MOUNT VIEW	0	0	0	0	0	0	32	132	444	341
NORTH EASTERN ALBERTA	0	0	0	0	0	0	44	170	229	951
PEACE RIVER	0	0	0	0	0	39	0	351	347	708
RED DEER REGIONAL	0	0	0	0	0	0	18	257	283	258
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	28	96	436	287
SOUTH PEACE	0	0	0	0	0	0	33	90	399	327
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	28	170	78	689
STURGEON	0	0	0	0	0	11	20	58	298	655
VEGREVILLE	0	0	0	0	0	0	0	0	391	355
WETOKA	0	0	0	0	0	0	0	58	379	529
ALBERTA	0	0	0	0	0	6	34	147	346	554

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1989

LUNG CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	37	20	54	18	0.79	.
ALBERTA WEST CENTRAL	43	11	75	9	0.91	.
ATHABASCA	42	11	72	10	0.89	.
BANFF NATIONAL PARK	30	-28	88	24	0.64	.
BARONS-EUREKA-WARNER	35	11	60	21	0.74	.
BIG COUNTRY	31	-4	66	23	0.66	.
CALGARY	60	51	70	4	1.28	YES
CHINOOK	50	23	77	6	1.06	.
DRUMHELLER	38	11	64	15	0.81	.
EDMONTON	50	42	59	7	1.06	.
FOOTHILLS	61	27	94	3	1.30	.
FORT MCMURRAY	20	-10	50	26	0.43	.
HIGH LEVEL-FORT VERMILION	18	-18	54	27	0.38	.
JASPER NATIONAL PARK	103	-40	245	1	2.19	.
LEDUC-STRATHCONA	38	18	59	16	0.81	.
LETHBRIDGE	35	17	54	22	0.74	.
MINBURN-VERMILION	36	14	59	20	0.77	.
MOUNT VIEW	44	20	67	8	0.94	.
NORTH EASTERN ALBERTA	55	26	83	5	1.17	.
PEACE RIVER	69	32	105	2	1.47	.
RED DEER REGIONAL	42	26	58	11	0.89	.
SOUTHEASTERN ALBERTA	39	21	56	13	0.83	.
SOUTH PEACE	38	16	61	17	0.81	.
STONY PLAIN-LAC STE. ANNE	39	16	62	14	0.83	.
STURGEON	41	22	59	12	0.87	.
VEGREVILLE	29	11	46	25	0.62	.
WETOKA	37	15	59	19	0.79	.
ALBERTA	47	44	51			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
27
(BUFFALO NATIONAL PARK)
PEACE RIVER
2
FORT McMURRAY
26
ATHABASCA
10
SOUTH PEACE
17
(NATIONAL DEFENCE)
STURGEON
5
STONY PLAIN LAC STE. ANNE
12
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
14
VEGREVILLE
20
25
16
MINBURN VERMILION
9
LEDUC - STRATHCONA
1
19
JASPER
WETOKA
18
ALBERTA EAST CENTRAL
RED DEER
11
23
7
8
DRUMHELLER
BANFF
MOUNT VIEW
BIG COUNTRY
EDMONTON
24
15
4
CALGARY
FOOTHILLS
3
SOUTHEASTERN ALBERTA
6
BARONS EUREKA WARNER
13
CHINOOK
22
21
LETHBRIDGE

Alberta
HEALTH

3.18

LUNG CANCER, MALES, 1989

NUMBER OF MALE DEATHS, 1989

DIABETES MELLITUS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	1	0	0	2	8	11
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	2	1	3
ATHABASCA	0	0	0	0	0	0	0	1	1	1	3
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	0	2	1	4	4	12	23
CHINOOK	0	0	0	0	0	0	1	1	0	3	5
DRUMHELLER	0	0	0	0	0	0	0	1	0	0	1
EDMONTON	0	0	0	0	0	4	3	2	10	18	37
FOOTHILLS	0	0	0	0	1	0	0	0	0	2	3
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	1	3	4
LETHBRIDGE	0	0	0	0	0	0	0	0	0	1	1
MINBURN-VERMILION	0	0	0	0	0	1	0	0	0	3	4
MOUNT VIEW	0	0	0	0	0	0	0	0	1	2	3
NORTH EASTERN ALBERTA	0	0	0	0	0	1	0	0	0	1	2
PEACE RIVER	0	0	0	0	0	1	0	0	1	0	2
RED DEER REGIONAL	0	0	0	0	0	0	0	1	1	2	4
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	0	5	5
SOUTH PEACE	0	0	0	0	0	0	1	0	0	3	4
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	0	0
STURGEON	0	0	0	0	0	0	0	0	0	1	1
VEGREVILLE	0	0	0	0	0	0	0	0	0	4	4
WETOKA	0	0	0	0	1	0	0	0	0	0	1
ALBERTA	0	0	0	0	2	10	6	10	23	70	121

3.20

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1989

DIABETES MELLITUS

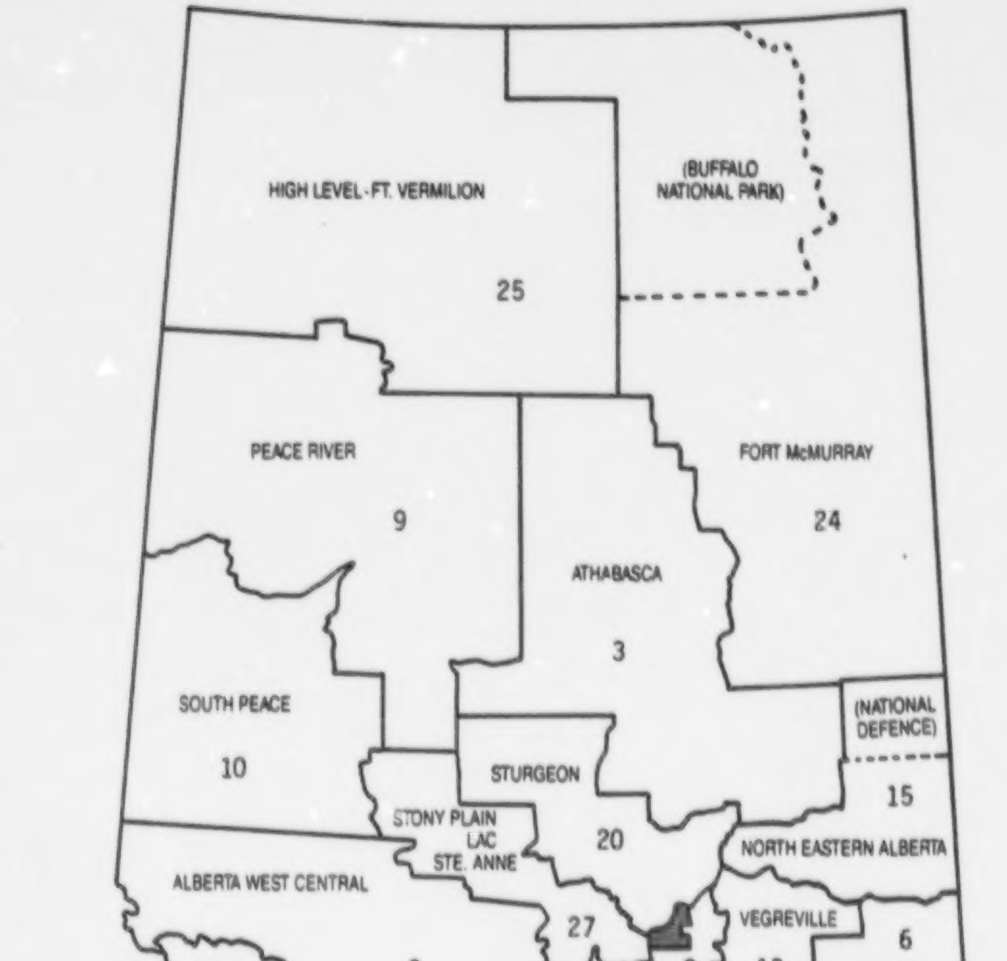
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	28	0	0	86	507
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	270	242
ATHABASCA	0	0	0	0	0	0	0	77	135	192
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	0	4	3	17	31	182
CHINOOK	0	0	0	0	0	0	54	58	0	294
DRUMHELLER	0	0	0	0	0	0	0	71	0	0
EDMONTON	0	0	0	0	0	10	11	9	74	234
FOOTHILLS	0	0	0	0	38	0	0	0	0	287
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	57	331
LETHBRIDGE	0	0	0	0	0	0	0	0	0	74
MINBURN-VERMILION	0	0	0	0	0	37	0	0	0	328
MOUNT VIEW	0	0	0	0	0	0	0	0	74	227
NORTH EASTERN ALBERTA	0	0	0	0	0	31	0	0	0	136
PEACE RIVER	0	0	0	0	0	39	0	0	116	0
RED DEER REGIONAL	0	0	0	0	0	0	0	23	31	103
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	0	359
SOUTH PEACE	0	0	0	0	0	0	33	0	0	327
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	0
STURGEON	0	0	0	0	0	0	0	0	0	82
VEGREVILLE	0	0	0	0	0	0	0	0	0	355
WETOKA	0	0	0	0	35	0	0	0	0	0
ALBERTA	0	0	0	0	1	5	5	11	40	204

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1989

DIABETES MELLITUS

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	23	9	37	1	2.3	YES
ALBERTA WEST CENTRAL	20	-3	42	2	2.0	.
ATHABASCA	18	-2	38	3	1.8	.
BANFF NATIONAL PARK	0	0	0	21	0.0	.
BARONS-EUREKA-WARNER	0	0	0	22	0.0	.
BIG COUNTRY	0	0	0	23	0.0	.
CALGARY	9	5	12	14	0.9	.
CHINOOK	18	2	34	4	1.8	.
DRUMHELLER	5	-5	16	18	0.5	.
EDMONTON	13	9	18	7	1.3	.
FOOTHILLS	16	-3	34	5	1.6	.
FORT MCMURRAY	0	0	0	24	0.0	.
HIGH LEVEL-FORT VERMILION	0	0	0	25	0.0	.
JASPER NATIONAL PARK	0	0	0	26	0.0	.
LEDUC-STRATHCONA	12	0	24	8	1.2	.
LETHBRIDGE	2	-2	6	19	0.2	.
MINBURN-VERMILION	15	0	30	6	1.5	.
MOUNT VIEW	10	-1	21	11	1.0	.
NORTH EASTERN ALBERTA	9	-3	21	15	0.9	.
PEACE RIVER	12	-4	27	9	1.2	.
RED DEER REGIONAL	6	0	12	17	0.6	.
SOUTHEASTERN ALBERTA	10	1	19	12	1.0	.
SOUTH PEACE	12	0	25	10	1.2	.
STONY PLAIN-LAC STE. ANNE	0	0	0	27	0.0	.
STURGEON	2	-2	7	20	0.2	.
VEGREVILLE	10	0	20	13	1.0	.
WETOKA	7	-7	21	16	0.7	.
ALBERTA	10	8	12			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
25
(BUFFALO NATIONAL PARK)
PEACE RIVER
9
FORT McMURRAY
24
ATHABASCA
3
SOUTH PEACE
10
(NATIONAL DEFENCE)
15
STURGEON
20
STONY PLAIN LAC STE. ANNE
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
27
VEGREVILLE
6
2
8
13
MINBURN VERMILION
26
LEDUC - STRATHCONA
16
JASPER
WETOKA
1
ALBERTA EAST CENTRAL
RED DEER
17
7
23
EDMONTON
BANFF
11
DRUMHELLER
MOUNT VIEW
BIG COUNTRY
21
18
14
CALGARY
FOOTHILLS
SOUTHEASTERN ALBERTA
5
BARONS EUREKA WARNER
19
12
CHINOOK
Alberta
HEALTH
22
LETHBRIDGE
4

DIABETES MELLITUS, MALES, 1989

NUMBER OF MALE DEATHS, 1989

ISCHEMIC HEART DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	9	29	34	72
ALBERTA WEST CENTRAL	0	0	0	0	0	2	6	5	7	14	34
ATHABASCA	0	0	0	0	0	0	0	3	8	10	21
BANFF NATIONAL PARK	0	0	0	0	0	0	0	1	0	1	2
BARONS-EUREKA-WARNER	0	0	0	0	0	0	2	8	11	15	36
BIG COUNTRY	0	0	0	0	0	2	1	2	4	8	17
CALGARY	0	0	0	1	0	7	32	67	100	165	372
CHINOOK	0	0	0	0	0	1	4	4	13	21	43
DRUMHELLER	0	0	0	0	1	0	3	5	8	13	30
EDMONTON	0	0	0	0	2	5	30	68	139	170	414
FOOTHILLS	0	0	0	0	0	0	1	4	11	12	28
FORT MCMURRAY	0	0	0	0	0	0	1	3	1	2	7
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	1	2	1	4
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	2	2	8	18	28	58
LETHBRIDGE	0	0	0	0	0	1	5	9	18	37	70
MINBURN-VERMILION	0	0	0	0	0	0	1	7	6	25	39
MOUNT VIEW	0	0	0	0	0	0	1	5	12	22	40
NORTH EASTERN ALBERTA	0	0	0	0	0	1	4	10	9	18	42
PEACE RIVER	0	0	0	0	0	1	1	6	6	19	33
RED DEER REGIONAL	0	0	0	0	0	0	1	19	22	51	93
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	2	9	32	38	81
SOUTH PEACE	0	0	0	0	0	0	1	9	15	19	44
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	1	7	6	14	8	36
STURGEON	0	0	0	0	0	2	8	9	23	35	77
VEGREVILLE	0	0	0	0	0	0	0	5	15	32	52
WETOKA	0	0	0	0	1	0	0	6	16	19	42
ALBERTA	0	0	0	1	4	25	113	288	539	817	1787

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1989

ISCHEMIC HEART DISEASE

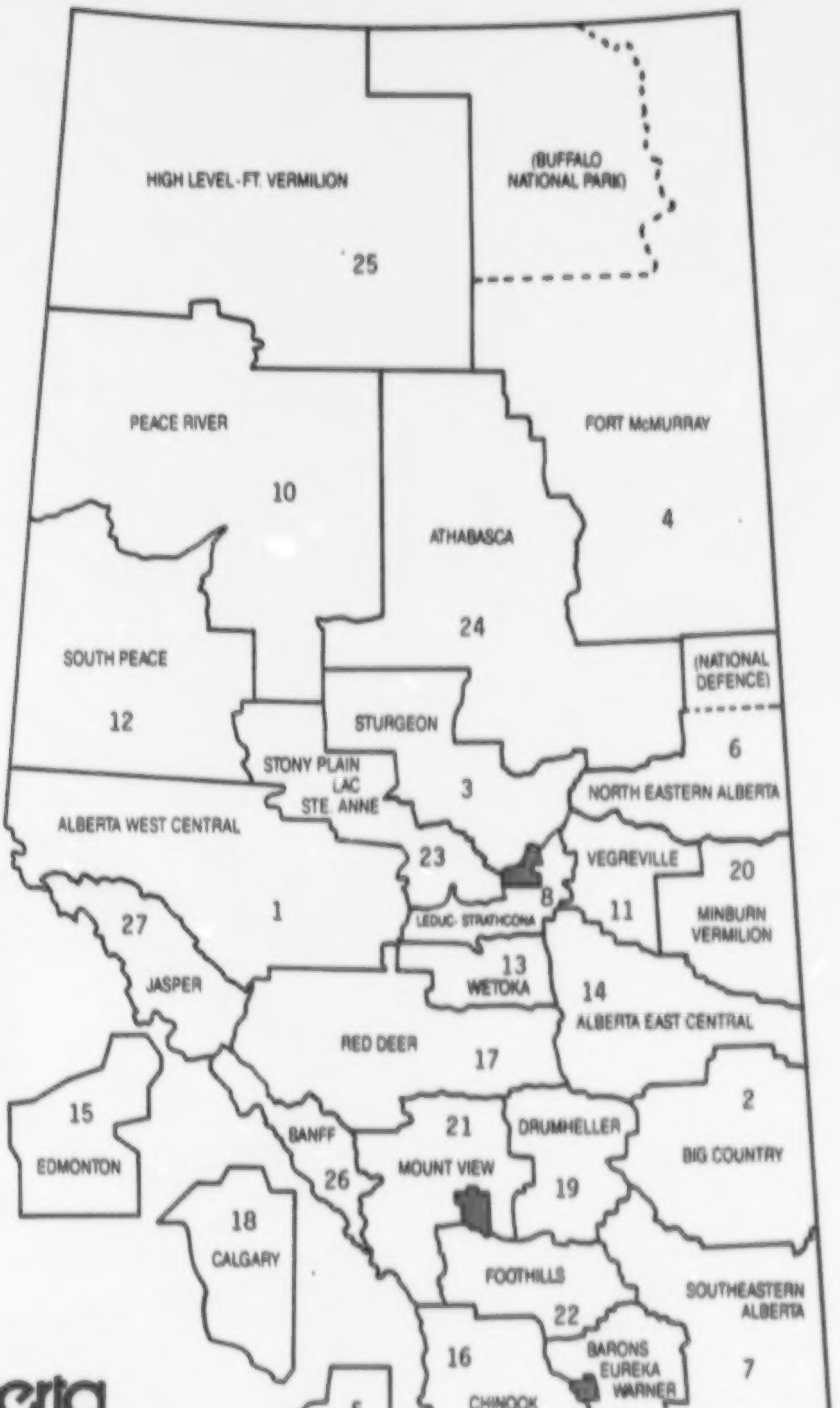
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	349	1248	2153
ALBERTA WEST CENTRAL	0	0	0	0	0	64	287	356	946	3390
ATHABASCA	0	0	0	0	0	0	0	232	1077	1923
BANFF NATIONAL PARK	0	0	0	0	0	0	0	394	0	1754
BARONS-EUREKA-WARNER	0	0	0	0	0	0	99	486	1010	2092
BIG COUNTRY	0	0	0	0	0	268	151	285	837	2614
CALGARY	0	0	0	2	0	13	103	287	771	2508
CHINOOK	0	0	0	0	0	38	215	233	887	2059
DRUMHELLER	0	0	0	0	37	0	204	355	698	1811
EDMONTON	0	0	0	0	3	12	108	294	1026	2212
FOOTHILLS	0	0	0	0	0	0	58	289	1066	1722
FORT MCMURRAY	0	0	0	0	0	0	64	548	862	2778
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	283	1105	1266
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	19	35	235	1030	3087
LETHBRIDGE	0	0	0	0	0	24	188	364	864	2723
MINBURN-VERMILION	0	0	0	0	0	0	55	426	470	2732
MOUNT VIEW	0	0	0	0	0	0	32	219	888	2500
NORTH EASTERN ALBERTA	0	0	0	0	0	31	174	566	688	2446
PEACE RIVER	0	0	0	0	0	39	50	421	694	2691
RED DEER REGIONAL	0	0	0	0	0	0	18	443	692	2633
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	57	287	1269	2728
SOUTH PEACE	0	0	0	0	0	0	33	407	1197	2070
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	17	196	255	1096	1102
STURGEON	0	0	0	0	0	22	159	261	1141	2867
VEGREVILLE	0	0	0	0	0	0	0	333	977	2837
WETOKA	0	0	0	0	35	0	0	345	1214	2008
ALBERTA	0	0	0	1	2	13	97	314	933	2384

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1989

ISCHEMIC HEART DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	146	112	181	14	0.99	.
ALBERTA WEST CENTRAL	205	135	275	1	1.39	.
ATHABASCA	123	70	176	24	0.84	.
BANFF NATIONAL PARK	79	-34	192	26	0.54	.
BARONS-EUREKA-WARNER	153	103	203	9	1.04	.
BIG COUNTRY	191	95	287	2	1.30	.
CALGARY	141	127	156	18	0.96	.
CHINOOK	144	100	189	16	0.98	.
DRUMHELLER	138	88	189	19	0.94	.
EDMONTON	146	132	160	15	0.99	.
FOOTHILLS	127	79	174	22	0.86	.
FORT MCMURRAY	167	23	310	4	1.14	.
HIGH LEVEL-FORT VERMILION	110	0	219	25	0.75	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	160	118	202	8	1.09	.
LETHBRIDGE	167	127	207	5	1.14	.
MINBURN-VERMILION	137	93	181	20	0.93	.
MOUNT VIEW	132	91	173	21	0.90	.
NORTH EASTERN ALBERTA	166	116	216	6	1.13	.
PEACE RIVER	152	99	204	10	1.03	.
RED DEER REGIONAL	142	113	171	17	0.97	.
SOUTHEASTERN ALBERTA	164	128	200	7	1.12	.
SOUTH PEACE	149	105	193	12	1.01	.
STONY PLAIN-LAC STE. ANNE	124	83	165	23	0.84	.
STURGEON	174	135	212	3	1.18	.
VEGREVILLE	152	109	194	11	1.03	.
WETOKA	147	102	193	13	1.00	.
ALBERTA	147	140	154			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
25
(BUFFALO NATIONAL PARK)
PEACE RIVER
10
FORT McMURRAY
4
ATHABASCA
24
SOUTH PEACE
12
(NATIONAL DEFENCE)
STURGEON
6
STONY PLAIN LAC STE. ANNE
3
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
23
VEGREVILLE
20
8
27
1
11
MINBURN VERMILION
LEDUC-STRATHCONA
13
WETOKA
JASPER
14
ALBERTA EAST CENTRAL
RED DEER
17
15
EDMONTON
2
21
DRUMHELLER
BANFF
MOUNT VIEW
BIG COUNTRY
26
19
18
CALGARY
FOOTHILLS
SOUTHEASTERN ALBERTA
22
16
BARONS EUREKA WARNER
7
CHINOOK
5
LETHBRIDGE
9

Alberta
HEALTH

3.26

ISCHEMIC HEART DISEASE, MALES, 1989

NUMBER OF MALE DEATHS, 1989

CEREBROVASCULAR DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	1	3	9	13
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	2	2
ATHABASCA	0	0	0	0	0	0	0	0	1	3	4
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	1	0	1
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	1	1	12	14
BIG COUNTRY	0	0	0	0	0	0	0	1	0	1	2
CALGARY	1	0	0	0	1	3	4	9	20	68	106
CHINOOK	0	0	0	0	0	0	0	1	3	13	17
DRUMHELLER	0	0	0	0	0	0	0	2	3	5	10
EDMONTON	0	0	0	0	1	2	5	7	28	69	112
FOOTHILLS	0	0	0	0	0	2	0	0	1	8	11
FORT MCMURRAY	0	0	0	0	0	1	0	1	0	0	2
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	1	1
LEDUC-STRATHCONA	0	0	0	0	1	0	0	2	3	3	9
LETHBRIDGE	0	0	0	0	0	0	0	4	2	13	19
MINBURN-VERMILION	0	0	0	0	0	0	0	0	1	5	6
MOUNT VIEW	0	0	0	0	0	0	1	0	2	11	14
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	3	10	13
PEACE RIVER	0	0	0	0	1	0	0	0	0	5	6
RED DEER REGIONAL	0	0	0	0	0	1	0	0	7	20	28
SOUTHEASTERN ALBERTA	0	1	0	0	0	0	0	1	4	14	20
SOUTH PEACE	0	0	0	0	0	0	0	0	3	6	9
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	1	7	8
STURGEON	0	0	0	0	1	0	1	1	3	16	22
VEGREVILLE	0	0	0	0	0	0	0	0	1	9	10
WETOKA		0	0	0	0	0	0	0	1	7	8
ALBERTA	1	1	0	0	5	9	11	31	92	317	467

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1989

CEREBROVASCULAR DISEASE

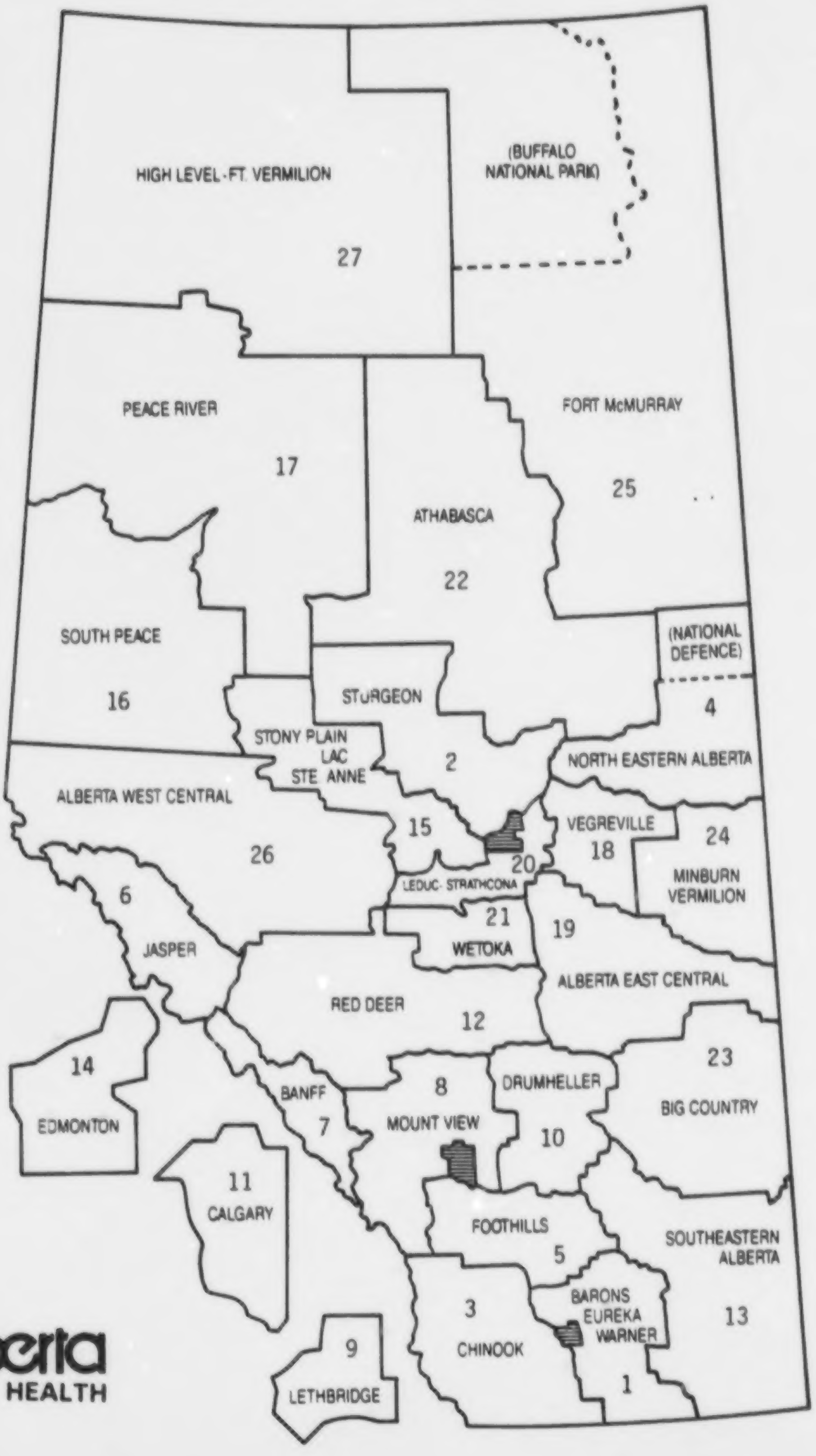
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	39	129	570
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	486
ATHABASCA	0	0	0	0	0	0	0	0	135	577
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	963	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	61	92	1676
BIG COUNTRY	0	0	0	0	0	0	0	163	0	327
CALGARY	18	0	0	0	1	6	13	39	154	1036
CHINOOK	0	0	0	0	0	0	0	58	205	1275
DRUMHELLER	0	0	0	0	0	0	0	142	262	696
EDMONTON	0	0	0	0	2	5	18	30	206	898
FOOTHILLS	0	0	0	0	0	71	0	0	97	1148
FORT MCMURRAY	0	0	0	0	0	27	0	183	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	1639
LEDUC-STRATHCONA	0	0	0	0	12	0	0	59	172	331
LETHBRIDGE	0	0	0	0	0	0	0	162	96	957
MINBURN-VERMILION	0	0	0	0	0	0	0	0	78	546
MOUNT VIEW	0	0	0	0	0	0	32	0	148	1250
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	229	1359
PEACE RIVER	0	0	0	0	31	0	0	0	0	708
RED DEER REGIONAL	0	0	0	0	0	11	0	0	220	1033
SOUTHEASTERN ALBERTA	0	40	0	0	0	0	0	32	159	1005
SOUTH PEACE	0	0	0	0	0	0	0	0	239	654
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	78	964
STURGEON	0	0	0	0	12	0	20	29	149	1310
VEGREVILLE	0	0	0	0	0	0	0	0	65	798
WETOKA	0	0	0	0	0	0	0	0	76	740
ALBERTA	5	1	0	0	2	5	9	34	159	925

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1989

CEREBROVASCULAR DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	25	11	39	19	0.66	.
ALBERTA WEST CENTRAL	14	-5	33	26	0.37	.
ATHABASCA	23	0	45	22	0.61	.
BANFF NATIONAL PARK	45	-43	133	7	1.18	.
BARONS-EUREKA-WARNER	56	27	86	1	1.47	.
BIG COUNTRY	20	-8	48	23	0.53	.
CALGARY	42	34	50	11	1.11	.
CHINOOK	50	26	74	3	1.32	.
DRUMHELLER	43	16	70	10	1.13	.
EDMONTON	40	33	48	14	1.05	.
FOOTHILLS	48	19	77	5	1.26	.
FORT MCMURRAY	18	-10	46	25	0.47	.
HIGH LEVEL-FORT VERMILION	0	0	0	27	0.00	.
JASPER NATIONAL PARK	46	-44	137	6	1.21	.
LEDUC-STRATHCONA	24	8	40	20	0.63	.
LETHBRIDGE	44	24	64	9	1.16	.
MINBURN-VERMILION	19	4	35	24	0.50	.
MOUNT VIEW	45	22	69	8	1.18	.
NORTH EASTERN ALBERTA	49	22	76	4	1.29	.
PEACE RIVER	26	5	47	17	0.68	.
RED DEER REGIONAL	41	26	57	12	1.08	.
SOUTHEASTERN ALBERTA	41	23	59	13	1.08	.
SOUTH PEACE	30	10	49	16	0.79	.
STONY PLAIN-LAC STE. ANNE	31	9	52	15	0.82	.
STURGEON	51	29	72	2	1.34	.
VEGREVILLE	26	10	42	18	0.68	.
WETOKA	24	7	41	21	0.63	.
ALBERTA	38	35	42			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
27
(BUFFALO NATIONAL PARK)
PEACE RIVER
17
FORT McMURRAY
25
ATHABASCA
22
SOUTH PEACE
16
(NATIONAL DEFENCE)
STURGEON
4
STONY PLAIN LAC STE ANNE
2
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
15
VEGREVILLE
18
24
26
20
MINBURN VERMILION
6
LEDUC - STRATHCONA
21
19
JASPER
WETOKA
ALBERTA EAST CENTRAL
RED DEER
12
14
23
8
DRUMHELLER
BIG COUNTRY
BANFF
7
MOUNT VIEW
EDMONTON
10
11
CALGARY
FOOTHILLS
SOUTHEASTERN ALBERTA
5
BARONS EUREKA WARNER
3
13
CHINOOK
9
1
LETHBRIDGE

Alberta
HEALTH

3.30

CEREBROVASCULAR DISEASE, MALES, 1989

NUMBER OF MALE DEATHS, 1989

PNEUMONIA

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	1	0	0	0	0	1	15	17
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	1	1	2	4
ATHABASCA	0	0	0	0	0	0	0	0	0	1	1
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	6	6
BIG COUNTRY	0	0	0	0	0	0	0	0	0	1	1
CALGARY	0	0	0	0	0	1	2	6	6	46	61
CHINOOK	0	0	0	0	0	1	0	2	1	6	10
DRUMHELLER	0	0	0	0	0	0	0	2	0	9	11
EDMONTON	0	0	0	0	0	1	1	3	11	32	48
FOOTHILLS	0	0	0	0	0	0	0	0	0	4	4
FORT MCMURRAY	0	0	0	0	0	1	0	0	0	0	1
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	1	0	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	1	4	5
LETHBRIDGE	0	0	0	0	0	0	0	0	0	11	11
MINBURN-VERMILION	0	0	0	0	0	0	0	0	2	5	7
MOUNT VIEW	0	0	0	0	0	0	0	2	1	7	10
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	3	3
PEACE RIVER	0	0	0	0	0	0	0	0	1	9	10
RED DEER REGIONAL	0	0	1	0	0	1	1	3	6	11	23
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	1	0	4	5
SOUTH PEACE	0	0	0	0	0	0	0	0	0	1	1
STONY PLAIN-LAC STE.ANNE	0	0	0	0	0	0	0	1	0	1	2
STURGEON	0	0	0	0	0	0	0	0	1	6	7
VEGREVILLE	0	0	0	0	0	0	0	0	2	6	8
WETOKA	0	0	0	0	0	0	0	0	0	7	7
ALBERTA	0	0	1	1	0	5	4	21	35	197	264

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1989

PNEUMONIA

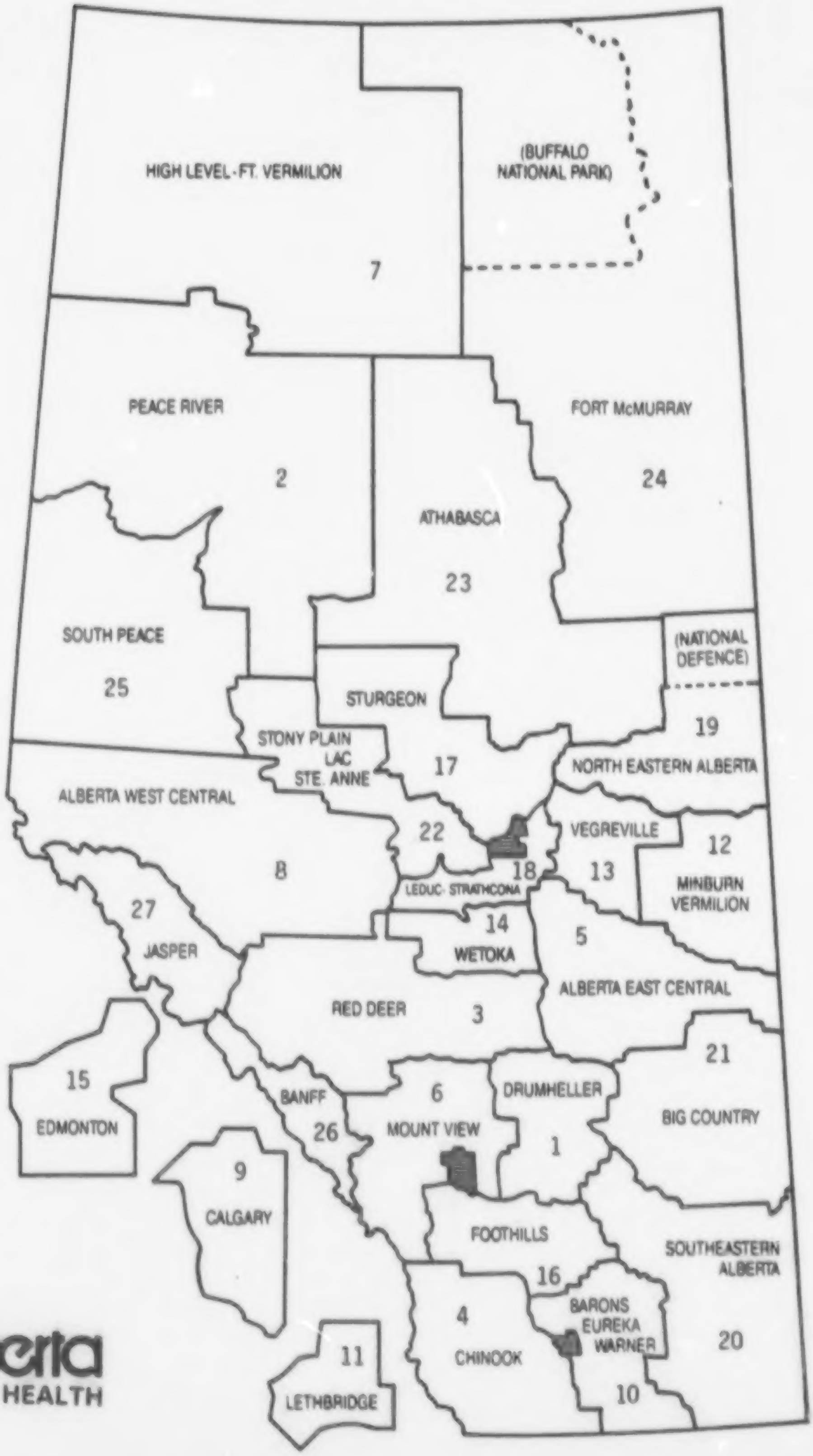
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	24	0	0	0	0	43	950
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	71	135	484
ATHABASCA	0	0	0	0	0	0	0	0	0	192
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	837
BIG COUNTRY	0	0	0	0	0	0	0	0	0	327
CALGARY	0	0	0	0	0	2	6	26	46	699
CHINOOK	0	0	0	0	0	38	0	117	68	588
DRUMHELLER	0	0	0	0	0	0	0	142	0	1253
EDMONTON	0	0	0	0	0	2	4	13	81	416
FOOTHILLS	0	0	0	0	0	0	0	0	0	574
FORT MCMURRAY	0	0	0	0	0	27	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	552	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	57	441
LETHBRIDGE	0	0	0	0	0	0	0	0	0	809
MINBURN-VERMILION	0	0	0	0	0	0	0	0	157	546
MOUNT VIEW	0	0	0	0	0	0	0	88	74	795
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	408
PEACE RIVER	0	0	0	0	0	0	0	0	116	1275
RED DEER REGIONAL	0	0	10	0	0	11	18	70	189	568
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	32	0	287
SOUTH PEACE	0	0	0	0	0	0	0	0	0	109
STONY PLAIN-LAC STE.ANNE	0	0	0	0	0	0	0	42	0	138
STURGEON	0	0	0	0	0	0	0	0	50	491
VEGREVILLE	0	0	0	0	0	0	0	0	130	532
WETOKA	0	0	0	0	0	0	0	0	0	740
ALBERTA	0	0	1	1	0	3	3	23	61	575

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1989

PNEUMONIA

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	33	17	49	5	1.50	.
ALBERTA WEST CENTRAL	25	0	51	8	1.14	.
ATHABASCA	5	5	16	23	0.23	.
BANFF NATIONAL PARK	0	0	0	26	0.00	.
BARONS-EUREKA-WARNER	24	5	43	10	1.09	.
BIG COUNTRY	9	9	27	21	0.41	.
CALGARY	25	19	31	9	1.14	.
CHINOOK	34	12	57	4	1.55	.
DRUMHELLER	46	19	74	1	2.09	YES
EDMONTON	17	12	22	15	0.77	.
FOOTHILLS	16	0	32	16	0.73	.
FORT MCMURRAY	4	4	12	24	0.18	.
HIGH LEVEL-FORT VERMILION	26	-25	78	7	1.18	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	15	2	28	18	0.68	.
LETHBRIDGE	23	9	36	11	1.05	.
MINBURN-VERMILION	23	6	40	12	1.05	.
MOUNT VIEW	33	12	53	6	1.50	.
NORTH EASTERN ALBERTA	12	-2	25	19	0.55	.
PEACE RIVER	41	16	67	2	1.86	.
RED DEER REGIONAL	35	21	50	3	1.59	YES
SOUTHEASTERN ALBERTA	11	1	20	20	0.50	.
SOUTH PEACE	3	-3	9	25	0.14	.
STONY PLAIN-LAC STE.ANNE	7	3	17	22	0.32	.
STURGEON	16	4	28	17	0.73	.
VEGREVILLE	21	6	36	13	0.95	.
WETOKA	21	5	36	14	0.95	.
ALBERTA	22	19	24			

HEALTH UNITS OF ALBERTA


(BUFFALO NATIONAL PARK)
HIGH LEVEL - FT. VERMILION
7
PEACE RIVER
2
FORT McMURRAY
24
ATHABASCA
23
SOUTH PEACE
25
(NATIONAL DEFENCE)
STURGEON
19
STONY PLAIN LAC STE. ANNE
17
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
22
VEGREVILLE
12
8
18
13
MINBURN VERMILION
LEDUC - STRATHCONA
27
14
5
JASPER
WETOKA
ALBERTA EAST CENTRAL
RED DEER
3
21
15
6
DRUMHELLER
BANFF
EDMONTON
26
MOUNT VIEW
BIG COUNTRY
1
9
CALGARY
FOOTHILLS
SOUTHEASTERN ALBERTA
16
BARONS EUREKA WARNER
4
CHINOOK
20
11
10
LETHBRIDGE

Alberta
HEALTH

3.34

PNEUMONIA, MALES, 1989

NUMBER OF MALE DEATHS, 1989

CHRONIC OBSTRUCTIVE LUNG DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	5	8	13
ALBERTA WEST CENTRAL	0	0	0	0	0	1	1	0	0	1	3
ATHABASCA	0	0	0	0	0	0	0	0	1	6	7
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	1	0	0	0	0	0	3	4
BIG COUNTRY	0	0	0	0	0	0	0	0	0	1	1
CALGARY	0	0	0	2	0	0	0	9	20	63	94
CHINOOK	0	0	0	0	0	0	0	0	0	5	5
DRUMHELLER	0	0	0	0	0	0	0	1	1	2	4
EDMONTON	0	0	0	0	0	1	1	8	28	61	99
FOOTHILLS	0	0	0	0	0	0	0	0	3	4	7
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	1	0	1	0	0	2
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	1	0	0	1	0	3	9	14
LETHBRIDGE	0	0	0	0	0	0	0	1	2	11	14
MINBURN-VERMILION	0	0	0	0	0	0	0	0	1	5	6
MOUNT VIEW	0	0	0	0	0	0	0	1	3	8	12
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	1	2	2	5
PEACE RIVER	0	0	0	0	0	0	0	0	1	8	9
RED DEER REGIONAL	0	0	1	0	1	1	0	1	7	14	25
SOUTHEASTERN ALBERTA	0	0	1	0	0	0	1	1	3	13	19
SOUTH PEACE	0	0	0	0	0	0	0	1	2	6	9
STONY PLAIN-LAC STE.ANNE	0	0	0	0	0	0	0	0	3	6	9
STURGEON	0	0	0	0	0	0	0	0	2	7	9
VEGREVILLE	0	0	0	0	0	0	0	0	2	7	9
WETOKA	0	0	0	0	0	0	0	1	3	10	14
ALBERTA	0	0	2	4	1	4	4	26	92	260	393

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1989

CHRONIC OBSTRUCTIVE LUNG DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	215	507
ALBERTA WEST CENTRAL	0	0	0	0	0	32	48	0	0	242
ATHABASCA	0	0	0	0	0	0	0	0	135	1154
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	30	0	0	0	0	0	418
BIG COUNTRY	0	0	0	0	0	0	0	0	0	327
CALGARY	0	0	0	4	0	0	0	39	154	958
CHINOOK	0	0	0	0	0	0	0	0	0	490
DRUMHELLER	0	0	0	0	0	0	0	71	87	279
EDMONTON	0	0	0	0	0	2	4	35	206	794
FOOTHILLS	0	0	0	0	0	0	0	0	291	574
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	114	0	283	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	12	0	0	18	0	172	992
LETHBRIDGE	0	0	0	0	0	0	0	40	96	809
MINBURN-VERMILION	0	0	0	0	0	0	0	0	78	546
MOUNT VIEW	0	0	0	0	0	0	0	44	222	909
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	57	153	272
PEACE RIVER	0	0	0	0	0	0	0	0	116	1133
RED DEER REGIONAL	0	0	10	0	8	11	0	23	220	723
SOUTHEASTERN ALBERTA	0	0	16	0	0	0	28	32	119	933
SOUTH PEACE	0	0	0	0	0	0	0	45	160	654
STONY PLAIN-LAC STE.ANNE	0	0	0	0	0	0	0	0	235	826
STURGEON	0	0	0	0	0	0	0	0	99	573
VEGREVILLE	0	0	0	0	0	0	0	0	130	621
WETOKA	0	0	0	0	0	0	0	58	228	1057
ALBERTA	0	0	1	2	0	2	3	28	159	759

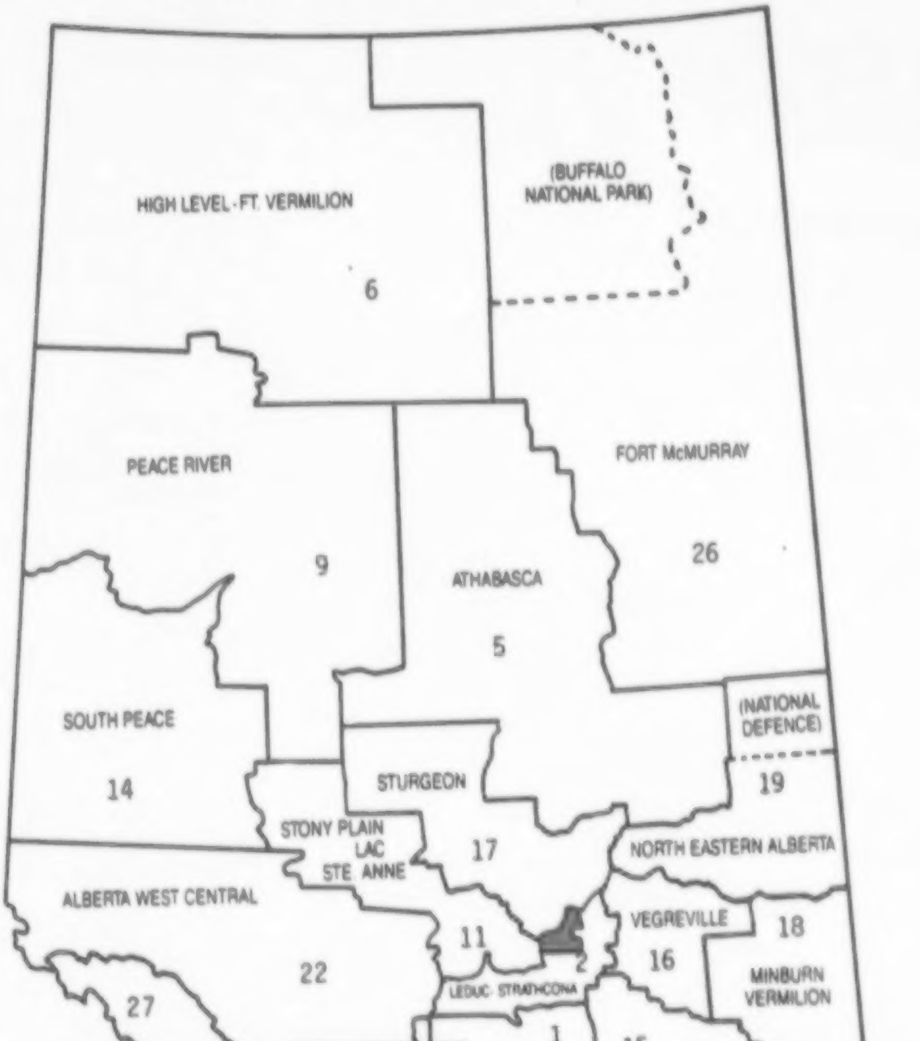
AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1989

CHRONIC OBSTRUCTIVE LUNG DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	25	11	38	15	0.78	.
ALBERTA WEST CENTRAL	16	-2	35	22	0.50	.
ATHABASCA	39	10	68	5	1.22	.
BANFF NATIONAL PARK	0	0	0	25	0.00	.
BARONS-EUREKA-WARNER	17	0	33	20	0.53	.
BIG COUNTRY	9	9	27	24	0.28	.
CALGARY	38	30	46	7	1.19	.
CHINOOK	14	2	26	23	0.44	.
DRUMHELLER	17	0	35	21	0.53	.
EDMONTON	36	29	43	10	1.13	.
FOOTHILLS	30	8	52	12	0.94	.
FORT MCMURRAY	0	0	0	26	0.00	.
HIGH LEVEL-FORT VERMILION	39	-15	93	6	1.22	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	40	19	61	2	1.25	.
LETHBRIDGE	30	14	47	13	0.94	.
MINBURN-VERMILION	19	4	35	18	0.59	.
MOUNT VIEW	40	17	62	3	1.25	.
NORTH EASTERN ALBERTA	19	2	36	19	0.59	.
PEACE RIVER	37	13	62	9	1.16	.
RED DEER REGIONAL	38	23	52	8	1.19	.
SOUTHEASTERN ALBERTA	40	22	57	4	1.25	.
SOUTH PEACE	29	10	49	14	0.91	.
STONY PLAIN-LAC STE.ANNE	34	12	57	11	1.06	.
STURGEON	21	7	35	17	0.66	.
VEGREVILLE	24	8	39	16	0.75	.
WETOKA	45	21	69	1	1.41	.
ALBERTA	32	29	36			

CHRONIC OBSTRUCTIVE LUNG DISEASE, MALES, 1989

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
6
(BUFFALO NATIONAL PARK)
PEACE RIVER
9
FORT McMURRAY
26
ATHABASCA
5
SOUTH PEACE
14
(NATIONAL DEFENCE)
19
STURGEON
17
STONY PLAIN LAC STE. ANNE
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
22
11
2
VEGREVILLE
16
18
MINBURN VERMILION
LEDUC - STRATHCONA
27
JASPER
1
WETOKA
15
ALBERTA EAST CENTRAL
RED DEER
8
24
10
EDMONTON
BANFF
25
3
MOUNT VIEW
DRUMHELLER
21
BIG COUNTRY
7
CALGARY
FOOTHILLS
12
SOUTHEASTERN ALBERTA
4
23
CHINOOK
BARONS EUREKA WARNER
20
13
LETHBRIDGE

Alberta
HEALTH

NUMBER OF MALE DEATHS, 1989

LIVER CIRRHOSIS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	1	0	1
ATHABASCA	0	0	0	0	0	0	1	0	0	0	1
BANFF NATIONAL PARK	0	0	0	0	0	0	1	0	0	0	1
BARONS-EUREKA-WARNER	0	0	0	0	0	1	1	0	0	0	2
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	1	4	4	10	7	4	30
CHINOOK	0	0	0	0	0	0	0	2	1	0	3
DRUMHELLER	0	0	0	0	0	1	2	0	1	0	4
EDMONTON	0	0	0	0	1	2	9	15	5	3	35
FOOTHILLS	0	0	0	0	0	0	0	0	2	0	2
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	2	0	0	0	2
LETHBRIDGE	0	0	0	0	0	0	0	0	2	1	3
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	0	0
MOUNT VIEW	0	0	0	0	0	0	1	1	0	0	2
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	0	0
PEACE RIVER	0	0	0	0	0	1	1	0	0	1	3
RED DEER REGIONAL	0	0	0	0	0	0	0	1	1	0	2
SOUTHEASTERN ALBERTA	0	0	0	0	0	1	0	1	2	0	4
SOUTH PEACE	0	0	0	0	0	0	0	1	2	0	3
STONY PLAIN-LAC STE.ANNE	0	0	0	0	0	0	1	0	1	2	4
STURGEON	0	0	0	0	0	0	0	0	0	2	2
VEGREVILLE	0	0	0	0	0	0	0	1	0	0	1
WETOKA	0	0	0	0	0	0	0	0	0	0	0
ALBERTA	0	0	0	0	2	10	23	32	25	13	105

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1989

LIVER CIRRHOSIS

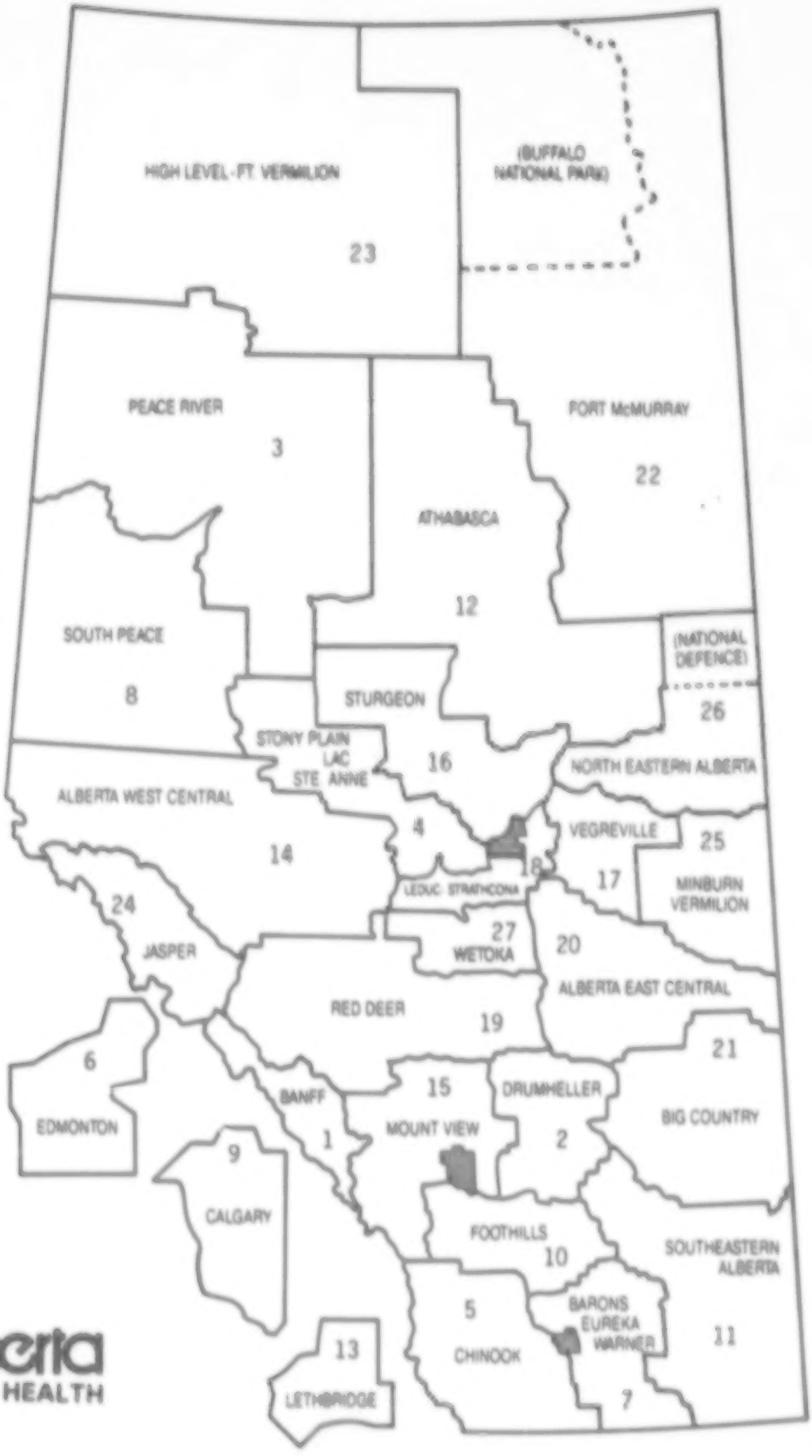
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	0
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	135	0
ATHABASCA	0	0	0	0	0	0	69	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	301	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	38	50	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	1	7	13	43	54	61
CHINOOK	0	0	0	0	0	0	0	117	68	0
DRUMHELLER	0	0	0	0	0	40	136	0	87	0
EDMONTON	0	0	0	0	2	5	33	65	37	39
FOOTHILLS	0	0	0	0	0	0	0	0	196	0
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	35	0	0	0
LETHBRIDGE	0	0	0	0	0	0	0	0	96	74
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	0
MOUNT VIEW	0	0	0	0	0	0	32	44	0	0
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	0
PEACE RIVER	0	0	0	0	0	39	50	0	0	142
RED DEER REGIONAL	0	0	0	0	0	0	0	23	31	0
SOUTHEASTERN ALBERTA	0	0	0	0	0	19	0	32	79	0
SOUTH PEACE	0	0	0	0	0	0	0	45	160	0
STONY PLAIN-LAC STE.ANNE	0	0	0	0	0	0	28	0	78	275
STURGEON	0	0	0	0	0	0	0	0	0	164
VEGREVILLE	0	0	0	0	0	0	0	67	0	0
WETOKA	0	0	0	0	0	0	0	0	0	0
ALBERTA	0	0	0	0	1	5	20	35	43	38

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1989

LIVER CIRRHOSIS

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	0	0	0	20	0.00	.
ALBERTA WEST CENTRAL	6	-6	19	14	0.67	.
ATHABASCA	7	-6	20	12	0.78	.
BANFF NATIONAL PARK	29	-28	86	1	3.22	.
BARONS-EUREKA-WARNER	11	4	25	7	1.22	.
BIG COUNTRY	0	0	0	21	0.00	.
CALGARY	10	6	14	9	1.11	.
CHINOOK	12	-2	26	5	1.33	.
DRUMHELLER	23	0	47	2	2.56	.
EDMONTON	12	8	16	6	1.33	.
FOOTHILLS	9	4	22	10	1.00	.
FORT MCMURRAY	0	0	0	22	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	23	0.00	.
JASPER NATIONAL PARK	0	0	0	24	0.00	.
LEDUC-STRATHCONA	3	-1	8	18	0.33	.
LETHBRIDGE	7	-1	14	13	0.78	.
MINBURN-VERMILION	0	0	0	25	0.00	.
MOUNT VIEW	6	-2	15	15	0.67	.
NORTH EASTERN ALBERTA	0	0	0	26	0.00	.
PEACE RIVER	15	-2	32	3	1.67	.
RED DEER REGIONAL	3	-1	8	19	0.33	.
SOUTHEASTERN ALBERTA	9	0	18	11	1.00	.
SOUTH PEACE	11	-1	23	8	1.22	.
STONY PLAIN-LAC STE.ANNE	14	0	28	4	1.56	.
STURGEON	5	-2	11	16	0.56	.
VEGREVILLE	5	5	15	17	0.56	.
WETOKA	0	0	0	27	0.00	.
ALBERTA	9	7	10			

HEALTH UNITS OF ALBERTA



HIGH LEVEL - FT. VERMILION
23
(BUFFALO NATIONAL PARK)
PEACE RIVER
3
FORT McMURRAY
22
ATHABASCA
12
SOUTH PEACE
8
(NATIONAL DEFENCE)
26
STURGEON
STONY PLAIN LAC STE. ANNE
16
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
4
VEGREVILLE
25
14
18
17
MINBURN VERMILION
LEDUC - STRATHCONA
24
27
WETOKA
20
JASPER
ALBERTA EAST CENTRAL
RED DEER
19
21
6
15
DRUMHELLER
BANFF
BIG COUNTRY
MOUNT VIEW
EDMONTON
1
2
9
CALGARY
FOOTHILLS
10
SOUTHEASTERN ALBERTA
5
BARONS EUREKA WARNER
13
11
CHINOOK
LETHBRIDGE
7

Alberta
HEALTH

LIVER CIRRHOSIS, MALES, 1989

3.42

NUMBER OF MALE DEATHS, 1989

CONGENITAL ANOMALY

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	3	0	0	0	0	0	0	0	0	0	3
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
ATHABASCA	2	0	0	0	0	0	0	0	0	0	2
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	10	0	0	0	1	0	0	3	1	0	15
CHINOOK	1	0	0	1	0	0	0	0	0	0	2
DRUMHELLER	0	0	0	0	0	0	0	0	0	0	0
EDMONTON	11	1	1	0	0	0	1	1	0	0	15
FOOTHILLS	0	0	0	0	0	0	0	0	0	0	0
FORT MCMURRAY	1	0	0	0	0	0	0	0	0	0	1
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	4	1	0	0	0	0	0	0	0	0	5
LETHBRIDGE	2	0	0	0	0	0	0	0	0	0	2
MINBURN-VERMILION	0	1	0	0	0	0	0	0	0	0	1
MOUNT VIEW	2	0	0	0	0	0	0	0	0	0	2
NORTH EASTERN ALBERTA	3	0	0	0	0	0	0	0	0	0	3
PEACE RIVER	0	0	1	0	0	0	0	0	0	0	1
RED DEER REGIONAL	1	1	0	0	2	0	0	0	1	0	5
SOUTHEASTERN ALBERTA	3	0	0	0	0	0	0	0	0	0	3
SOUTH PEACE	2	1	1	0	0	0	0	0	1	0	5
STONY PLAIN-LAC STE.ANNE	1	0	0	0	0	0	1	0	2	0	4
STURGEON	4	0	1	0	0	0	0	0	0	0	5
VEGREVILLE	0	0	0	0	0	0	1	0	0	0	1
WETOKA	0	0	0	0	0	0	0	0	0	0	0
ALBERTA	50	5	4	1	3	0	3	4	5	0	75

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1989

CONGENITAL ANOMALY

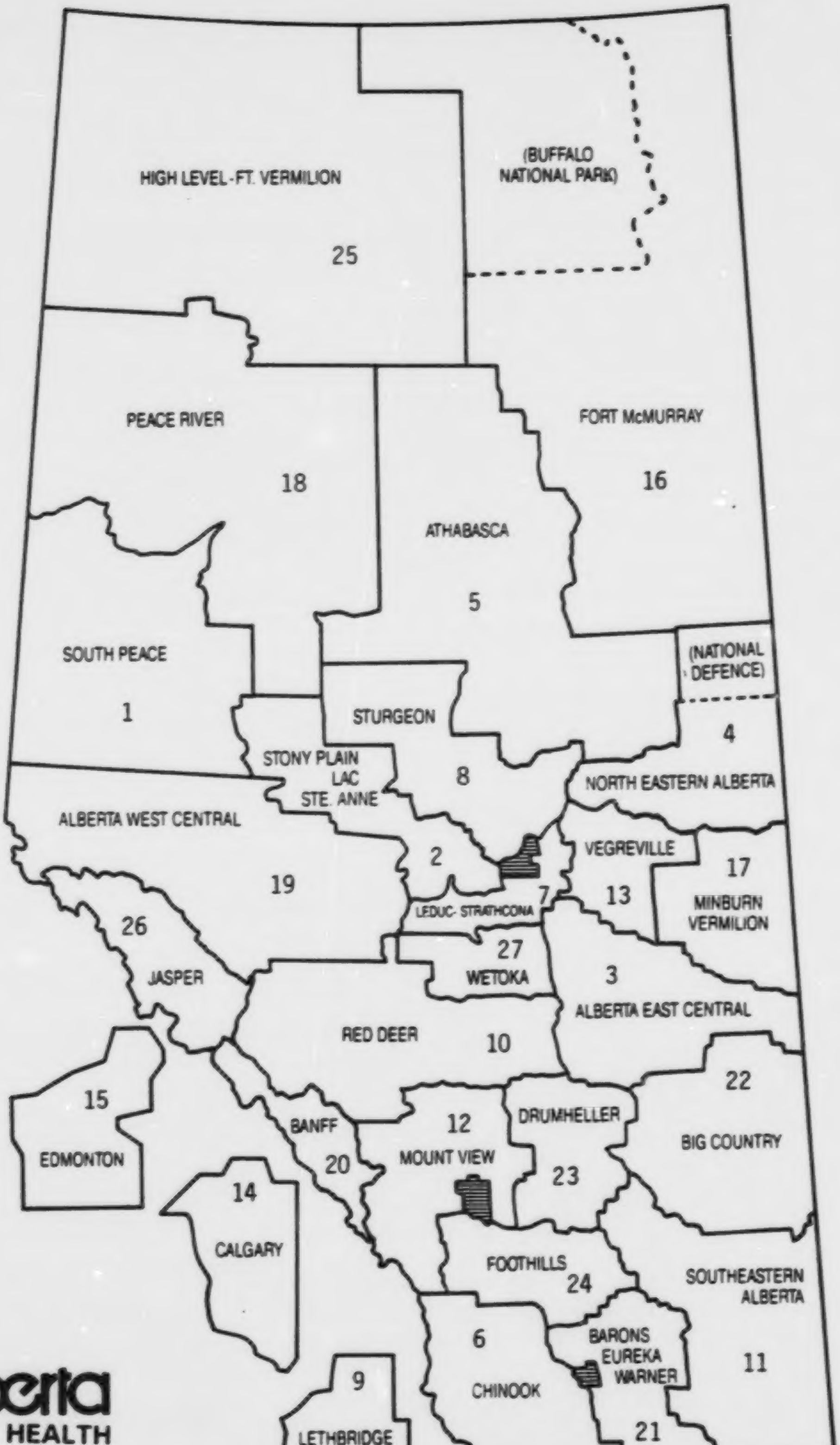
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	640	0	0	0	0	0	0	0	0	0
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	0
ATHABASCA	545	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	175	0	0	0	1	0	0	13	8	0
CHINOOK	279	0	0	32	0	0	0	0	0	0
DRUMHELLER	0	0	0	0	0	0	0	0	0	0
EDMONTON	210	5	3	0	0	0	4	4	0	0
FOOTHILLS	0	0	0	0	0	0	0	0	0	0
FORT MCMURRAY	253	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	455	27	0	0	0	0	0	0	0	0
LETHBRIDGE	481	0	0	0	0	0	0	0	0	0
MINBURN-VERMILION	0	71	0	0	0	0	0	0	0	0
MOUNT VIEW	368	0	0	0	0	0	0	0	0	0
NORTH EASTERN ALBERTA	610	0	0	0	0	0	0	0	0	0
PEACE RIVER	0	0	28	0	0	0	0	0	0	0
RED DEER REGIONAL	92	22	0	0	17	0	0	0	31	0
SOUTHEASTERN ALBERTA	449	0	0	0	0	0	0	0	0	0
SOUTH PEACE	306	39	17	0	0	0	0	0	80	0
STONY PLAIN-LAC STE.ANNE	158	0	0	0	0	0	28	0	157	0
STURGEON	486	0	11	0	0	0	0	0	0	0
VEGREVILLE	0	0	0	0	0	0	68	0	0	0
WETOKA	0	0	0	0	0	0	0	0	0	0
ALBERTA	230	6	2	1	1	0	3	4	9	0

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1989

CONGENITAL ANOMALY

HELATH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	11	-2	24	3	1.83	.
ALBERTA WEST CENTRAL	0	0	0	19	0.00	.
ATHABASCA	10	-4	23	5	1.67	.
BANFF NATIONAL PARK	0	0	0	20	0.00	.
BARONS-EUREKA-WARNER	0	0	0	21	0.00	.
BIG COUNTRY	0	0	0	22	0.00	.
CALGARY	5	2	7	14	0.83	.
CHINOOK	10	-4	24	6	1.67	.
DRUMHELLER	0	0	0	23	0.00	.
EDMONTON	5	3	8	15	0.83	.
FOOTHILLS	0	0	0	24	0.00	.
FORT MCMURRAY	5	-4	13	16	0.83	.
HIGH LEVEL-FORT VERMILION	0	0	0	25	0.00	.
JASPER NATIONAL PARK	0	0	0	26	0.00	.
LEDUC-STRATHCONA	10	1	19	7	1.67	.
LETHBRIDGE	9	-3	21	9	1.50	.
MINBURN-VERMILION	5	-5	14	17	0.83	.
MOUNT VIEW	7	-3	16	12	1.17	.
NORTH EASTERN ALBERTA	11	-1	23	4	1.83	.
PEACE RIVER	4	-4	13	18	0.67	.
RED DEER REGIONAL	8	1	15	10	1.33	.
SOUTHEASTERN ALBERTA	8	-1	17	11	1.33	.
SOUTH PEACE	15	2	27	1	2.50	.
STONY PLAIN-LAC STE. ANNE	13	0	26	2	2.17	.
STURGEON	10	1	19	8	1.67	.
VEGREVILLE	7	-6	19	13	1.17	.
WETOKA	0	0	0	27	0.00	.
ALBERTA	6	5	8			

HEALTH UNITS OF ALBERTA


HIGH LEVEL-FT. VERMILION
25
(BUFFALO NATIONAL PARK)
PEACE RIVER
18
FORT McMURRAY
16
ATHABASCA
5
SOUTH PEACE
1
(NATIONAL DEFENCE)
STURGEON
8
4
STONY PLAIN LAC STE. ANNE
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
2
VEGREVILLE
17
19
7
13
LEDUC- STRATHCONA
MINBURN VERMILION
26
27
JASPER
WETOKA
3
ALBERTA EAST CENTRAL
RED DEER
10
15
22
12
DRUMHELLER
BANFF
BIG COUNTRY
EDMONTON
MOUNT VIEW
20
23
14
CALGARY
FOOTHILLS
24
SOUTHEASTERN ALBERTA
6
BARONS EUREKA WARNER
11
CHINOOK
9
21
LETHBRIDGE

Alberta
HEALTH

3.46

CONGENITAL ANOMALY, MALES, 1989

3.47

NUMBER OF MALE DEATHS, 1989

MOTOR VEHICLE ACCIDENTS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	1	4	2	1	0	3	1	1	13
ALBERTA WEST CENTRAL	1	0	0	0	5	0	0	2	0	0	8
ATHABASCA	0	0	0	3	2	3	0	1	1	2	12
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	2	1	2	1	2	0	2	10
BIG COUNTRY	0	0	0	4	0	0	0	0	0	0	4
CALGARY	0	1	2	5	18	12	4	1	2	1	46
CHINOOK	0	0	0	3	1	2	0	0	0	0	6
DRUMHELLER	0	1	0	0	1	0	0	0	0	0	2
EDMONTON	0	2	3	11	9	7	4	4	1	5	46
FOOTHILLS	0	0	1	3	1	0	0	1	0	0	6
FORT MCMURRAY	0	0	0	3	1	1	2	0	0	0	7
HIGH LEVEL-FORT VERMILION	0	0	0	1	0	0	1	1	0	0	3
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	2	1	3	2	1	0	1	0	10
LETHBRIDGE	0	0	0	0	3	0	0	1	0	2	6
MINBURN-VERMILION	0	1	0	2	1	2	0	1	0	0	7
MOUNT VIEW	0	1	0	3	0	2	0	0	1	4	11
NORTH EASTERN ALBERTA	0	1	0	0	1	1	3	0	0	0	6
PEACE RIVER	0	1	0	4	1	2	0	1	1	1	11
RED DEER REGIONAL	0	0	0	4	2	2	2	0	1	1	12
SOUTHEASTERN ALBERTA	0	0	0	0	4	0	1	1	0	1	7
SOUTH PEACE	0	1	1	3	3	1	0	1	0	1	11
STONY PLAIN-LAC STE. ANNE	0	0	0	6	1	1	1	0	0	0	9
STURGEON	0	1	1	4	2	3	3	1	2	2	19
VEGREVILLE	0	0	0	1	3	1	1	1	0	3	10
WETOKA	0	0	0	0	1	0	1	1	3	1	7
ALBERTA	1	10	11	67	66	45	25	23	14	27	289

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1989

MOTOR VEHICLE ACCIDENTS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	23	98	48	28	0	116	43	63
ALBERTA WEST CENTRAL	271	0	0	0	122	0	0	143	0	0
ATHABASCA	0	0	0	109	77	140	0	77	135	385
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	60	32	75	50	121	0	279
BIG COUNTRY	0	0	0	396	0	0	0	0	0	0
CALGARY	0	5	5	10	25	22	13	4	15	15
CHINOOK	0	0	0	97	34	76	0	0	0	0
DRUMHELLER	0	87	0	0	37	0	0	0	0	0
EDMONTON	0	10	8	23	14	17	14	17	7	65
FOOTHILLS	0	0	35	133	38	0	0	72	0	0
FORT MCMURRAY	0	0	0	96	22	27	129	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	74	0	0	190	283	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	19	12	36	19	18	0	57	0
LETHBRIDGE	0	0	0	0	59	0	0	40	0	147
MINBURN-VERMILION	0	71	0	68	30	75	0	61	0	0
MOUNT VIEW	0	44	0	68	0	38	0	0	74	455
NORTH EASTERN ALBERTA	0	51	0	0	22	31	131	0	0	0
PEACE RIVER	0	64	0	119	31	78	0	70	116	142
RED DEER REGIONAL	0	0	0	43	17	22	37	0	31	52
SOUTHEASTERN ALBERTA	0	0	0	0	57	0	28	32	0	72
SOUTH PEACE	0	39	17	56	48	21	0	45	0	109
STONY PLAIN-LAC STE. ANNE	0	0	0	122	17	17	28	0	0	0
STURGEON	0	28	11	55	25	34	60	29	99	164
VEGREVILLE	0	0	0	53	145	49	68	67	0	266
WETOKA	0	0	0	0	35	0	53	58	228	106
ALBERTA	5	12	6	35	27	24	21	25	24	79

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1989

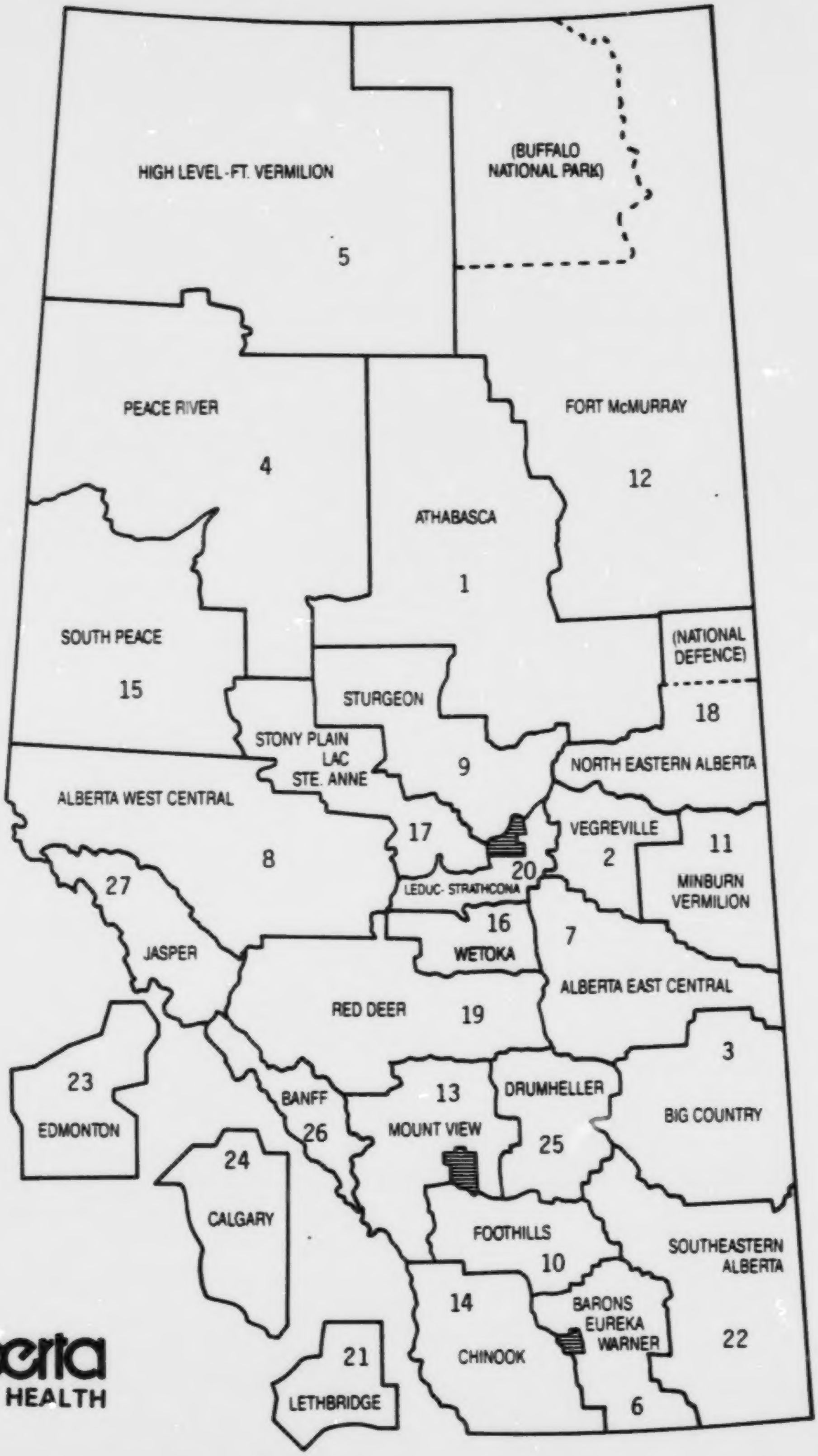
MOTOR VEHICLE ACCIDENTS

HELATH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	45	20	71	7	1.88	YES
ALBERTA WEST CENTRAL	40	12	67	8	1.67	.
ATHABASCA	77	33	121	1	3.21	YES
BANFF NATIONAL PARK	0	0	0	26	0.00	.
BARONS-EUREKA-WARNER	49	18	80	6	2.04	.
BIG COUNTRY	63	1	124	3	2.63	.
CALGARY	14	10	18	24	0.58	.
CHINOOK	34	7	61	14	1.42	.
DRUMHELLER	13	-5	32	25	0.54	.
EDMONTON	16	11	21	23	0.67	.
FOOTHILLS	39	8	71	10	1.63	.
FORT MCMURRAY	36	9	63	12	1.50	.
HIGH LEVEL-FORT VERMILION	51	-8	111	5	2.13	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	19	7	32	20	0.79	.
LETHBRIDGE	19	3	35	21	0.79	.
MINBURN-VERMILION	38	10	66	11	1.58	.
MOUNT VIEW	36	15	57	13	1.50	.
NORTH EASTERN ALBERTA	25	5	46	18	1.04	.
PEACE RIVER	56	23	90	4	2.33	YES
RED DEER REGIONAL	20	9	31	19	0.83	.
SOUTHEASTERN ALBERTA	18	5	32	22	0.75	.
SOUTH PEACE	33	14	53	15	1.38	.
STONY PLAIN-LAC STE. ANNE	28	10	46	17	1.17	.
STURGEON	40	22	58	9	1.67	YES
VEGREVILLE	64	20	107	2	2.67	YES
WETOKA	30	7	53	16	1.25	.
ALBERTA	24	21	27			

3.50

MOTOR VEHICLE ACCIDENTS, MALES, 1989

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
5
(BUFFALO NATIONAL PARK)
PEACE RIVER
4
FORT McMURRAY
12
ATHABASCA
1
SOUTH PEACE
15
(NATIONAL DEFENCE)
STURGEON
18
STONY PLAIN LAC STE. ANNE
9
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
17
VEGREVILLE
11
8
20
2
27
LEDUC- STRATHCONA
MINBURN VERMILION
16
7
JASPER
WETOKA
ALBERTA EAST CENTRAL
RED DEER
19
3
23
13
DRUMHELLER
BANFF
BIG COUNTRY
EDMONTON
26
MOUNT VIEW
25
24
CALGARY
FOOTHILLS
SOUTHEASTERN ALBERTA
10
14
BARONS EUREKA WARNER
22
21
CHINOOK
LETHBRIDGE
6

Alberta
HEALTH

NUMBER OF MALE DEATHS, 1989

SUICIDE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	2	2	0	1	0	2	0	7
ALBERTA WEST CENTRAL	0	0	0	3	1	1	0	1	0	1	7
ATHABASCA	0	0	0	2	1	2	1	2	0	0	8
BANFF NATIONAL PARK	0	0	0	0	0	0	1	0	0	0	1
BARONS-EUREKA-WARNER	0	0	0	2	0	2	2	0	0	1	7
BIG COUNTRY	0	0	0	0	1	0	0	0	0	0	1
CALGARY	0	0	0	12	19	13	7	4	0	3	58
CHINOOK	0	0	0	0	1	1	0	0	1	0	3
DRUMHELLER	0	0	0	2	0	0	0	0	0	0	2
EDMONTON	0	0	0	8	28	12	5	6	8	5	72
FOOTHILLS	0	0	0	0	0	1	0	0	0	0	1
FORT MCMURRAY	0	0	0	0	0	1	0	0	0	0	1
HIGH LEVEL-FORT VERMILION	0	0	0	2	1	0	1	0	0	0	4
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	2	0	4	2	1	0	9
LETHBRIDGE	0	0	1	1	0	0	0	0	0	0	2
MINBURN-VERMILION	0	0	0	1	0	1	0	1	1	0	4
MOUNT VIEW	0	0	0	2	1	1	2	0	0	0	6
NORTH EASTERN ALBERTA	0	0	0	2	2	3	1	0	1	0	9
PEACE RIVER	0	0	0	1	0	1	2	1	1	0	6
RED DEER REGIONAL	0	0	0	5	3	4	0	1	0	1	14
SOUTHEASTERN ALBERTA	0	0	0	2	1	2	1	1	0	0	7
SOUTH PEACE	0	0	0	1	2	0	1	0	0	0	4
STONY PLAIN-LAC STE. ANNE	0	0	0	1	0	1	0	1	2	0	5
STURGEON	0	0	0	0	5	0	0	0	3	1	9
VEGREVILLE	0	0	0	1	0	0	2	2	0	0	5
WETOKA	0	0	0	0	0	2	1	0	0	0	3
ALBERTA	0	0	1	50	70	48	32	22	20	12	255

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1989

SUICIDE

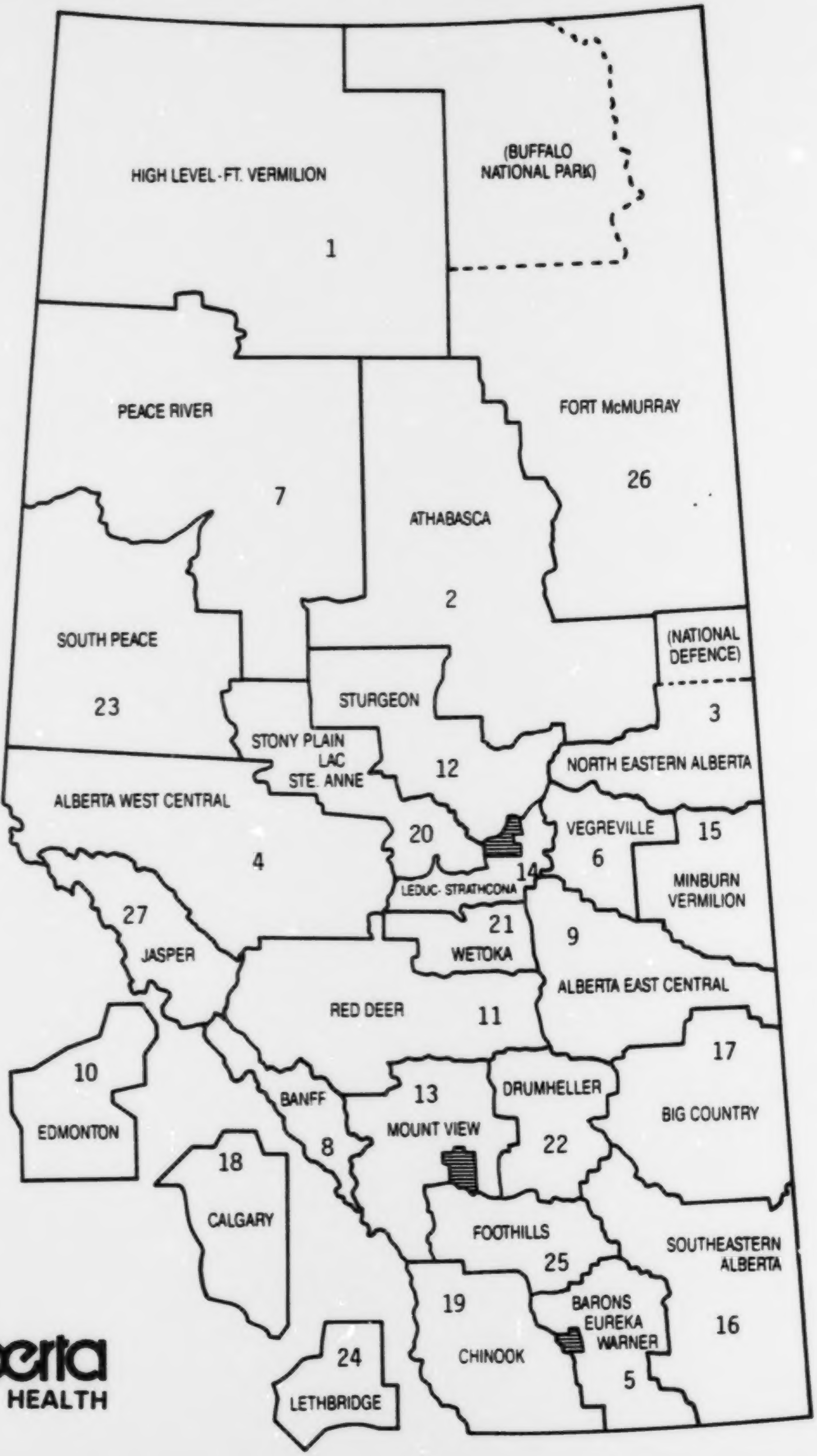
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	49	48	0	38	0	86	0
ALBERTA WEST CENTRAL	0	0	0	90	24	32	0	71	0	242
ATHABASCA	0	0	0	72	39	93	69	155	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	301	0	0	0
BARONS-EUREKA-WARNER	0	0	0	60	0	75	99	0	0	139
BIG COUNTRY	0	0	0	0	90	0	0	0	0	0
CALGARY	0	0	0	24	26	24	22	17	0	46
CHINOOK	0	0	0	0	34	38	0	0	68	0
DRUMHELLER	0	0	0	75	0	0	0	0	0	0
EDMONTON	0	0	0	17	45	29	18	26	59	65
FOOTHILLS	0	0	0	0	0	35	0	0	0	0
FORT MCMURRAY	0	0	0	0	0	27	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	149	78	0	190	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	24	0	70	59	57	0
LETHBRIDGE	0	0	23	22	0	0	0	0	0	0
MINBURN-VERMILION	0	0	0	34	0	37	0	61	78	0
MOUNT VIEW	0	0	0	46	18	19	63	0	0	0
NORTH EASTERN ALBERTA	0	0	0	49	44	92	44	0	76	0
PEACE RIVER	0	0	0	30	0	39	101	70	116	0
RED DEER REGIONAL	0	0	0	53	25	45	0	23	0	52
SOUTHEASTERN ALBERTA	0	0	0	34	14	38	28	32	0	0
SOUTH PEACE	0	0	0	19	32	0	33	0	0	0
STONY PLAIN-LAC STE. ANNE	0	0	0	20	0	17	0	42	157	0
STURGEON	0	0	0	0	62	0	0	0	149	82
VEGREVILLE	0	0	0	53	0	0	136	133	0	0
WETOKA	0	0	0	0	0	73	53	0	0	0
ALBERTA	0	0	1	26	29	26	27	24	35	35

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1989

SUICIDE

HELATH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	25	6	44	9	1.19	.
ALBERTA WEST CENTRAL	36	9	63	4	1.71	.
ATHABASCA	52	16	88	2	2.48	YES
BANFF NATIONAL PARK	29	-28	86	8	1.38	.
BARONS-EUREKA-WARNER	35	9	61	5	1.67	.
BIG COUNTRY	18	-17	53	17	0.86	.
CALGARY	17	13	22	18	0.81	.
CHINOOK	16	-3	34	19	0.76	.
DRUMHELLER	12	5	28	22	0.57	.
EDMONTON	24	19	30	10	1.14	.
FOOTHILLS	5	-5	16	25	0.24	.
FORT MCMURRAY	4	-4	12	26	0.19	.
HIGH LEVEL-FORT VERMILION	57	0	115	1	2.71	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	19	6	31	14	0.90	.
LETHBRIDGE	7	-3	17	24	0.33	.
MINBURN-VERMILION	19	0	39	15	0.90	.
MOUNT VIEW	20	4	36	13	0.95	.
NORTH EASTERN ALBERTA	38	13	64	3	1.81	.
PEACE RIVER	31	6	56	7	1.48	.
RED DEER REGIONAL	24	11	36	11	1.14	.
SOUTHEASTERN ALBERTA	19	5	33	16	0.90	.
SOUTH PEACE	12	0	25	23	0.57	.
STONY PLAIN-LAC STE. ANNE	16	2	31	20	0.76	.
STURGEON	22	7	36	12	1.05	.
VEGREVILLE	32	3	60	6	1.52	.
WETOKA	16	-2	35	21	0.76	.
ALBERTA	21	18	24			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
1
(BUFFALO NATIONAL PARK)
PEACE RIVER
7
FORT McMURRAY
26
ATHABASCA
2
SOUTH PEACE
23
(NATIONAL DEFENCE)
STURGEON
3
STONY PLAIN LAC STE. ANNE
12
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
VEGREVILLE
15
20
6
4
14
MINBURN VERMILION
LEDUC - STRATHCONA
27
21
9
JASPER
WETOKA
ALBERTA EAST CENTRAL
RED DEER
11
17
10
BANFF
13
DRUMHELLER
BIG COUNTRY
EDMONTON
MOUNT VIEW
8
22
18
CALGARY
FOOTHILLS
25
SOUTHEASTERN ALBERTA
19
BARONS EUREKA WARNER
16
CHINOOK
24
5
LETHBRIDGE

Alberta
HEALTH

3.54

SUICIDE, MALES, 1989

3.55

NUMBER OF MALE DEATHS, 1989

PROSTATE CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	2	8	10
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	1	1	1	3
ATHABASCA	0	0	0	0	0	0	0	0	0	2	2
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	4	6	10
BIG COUNTRY	0	0	0	0	0	0	0	0	0	1	1
CALGARY	0	0	0	0	0	0	1	5	13	25	44
CHINOOK	0	0	0	0	0	0	0	0	1	4	5
DRUMHELLER	0	0	0	0	0	0	0	1	1	1	3
EDMONTON	0	0	0	0	0	0	0	2	12	28	42
FOOTHILLS	0	0	0	0	0	0	0	0	1	4	5
FORT MCMURRAY	0	0	0	0	0	0	0	1	0	1	2
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	1	1	3	5
LETHBRIDGE	0	0	0	0	0	0	0	1	2	5	8
MINBURN-VERMILION	0	0	0	0	0	0	0	0	1	3	4
MOUNT VIEW	0	0	0	0	0	0	0	2	7	5	14
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	1	1	2
PEACE RIVER	0	0	0	0	0	0	0	1	2	2	5
RED DEER REGIONAL	0	0	0	0	0	0	0	0	5	12	17
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	2	6	3	11
SOUTH PEACE	0	0	0	0	0	0	0	0	1	3	4
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	1	4	4	9
STURGEON	0	0	0	0	0	0	1	0	2	4	7
VEGREVILLE	0	0	0	0	0	0	0	0	3	3	6
WETOKA	0	0	0	0	0	0	0	0	2	2	4
ALBERTA	0	0	0	0	0	0	2	18	72	131	223

AGE-SPECIFIC DEATH RATES (PER 100,000 MALES), 1989

PROSTATE CANCER

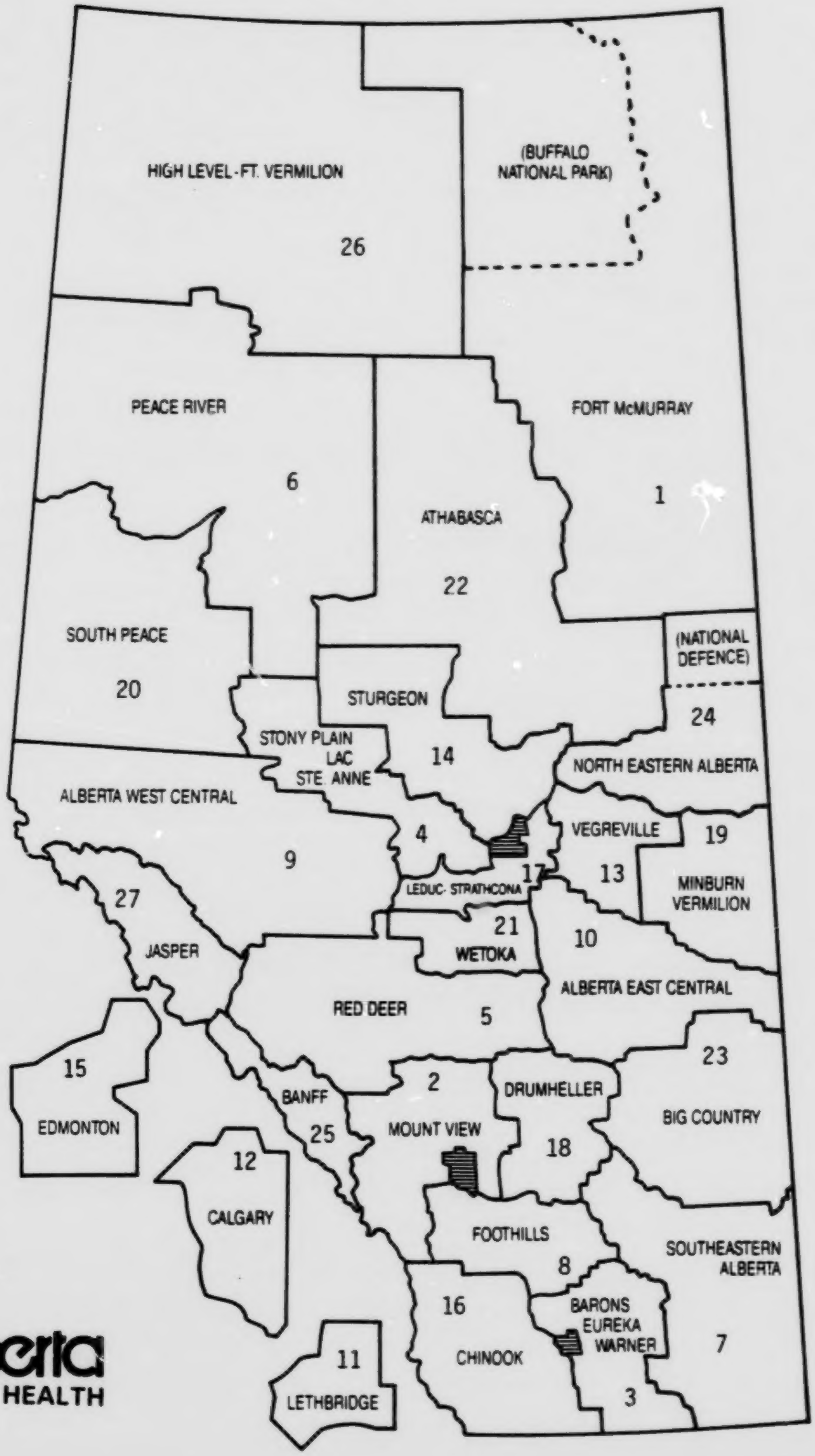
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	86	507
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	71	135	242
ATHABASCA	0	0	0	0	0	0	0	0	0	385
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	367	837
BIG COUNTRY	0	0	0	0	0	0	0	0	0	327
CALGARY	0	0	0	0	0	0	3	21	100	380
CHINOOK	0	0	0	0	0	0	0	0	68	392
DRUMHELLER	0	0	0	0	0	0	0	71	87	139
EDMONTON	0	0	0	0	0	0	0	9	88	364
FOOTHILLS	0	0	0	0	0	0	0	0	97	574
FORT MCMURRAY	0	0	0	0	0	0	0	183	0	1389
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	29	57	331
LETHBRIDGE	0	0	0	0	0	0	0	40	96	368
MINBURN-VERMILION	0	0	0	0	0	0	0	0	78	328
MOUNT VIEW	0	0	0	0	0	0	0	88	518	568
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	76	136
PEACE RIVER	0	0	0	0	0	0	0	70	231	283
RED DEER REGIONAL	0	0	0	0	0	0	0	0	157	620
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	64	238	215
SOUTH PEACE	0	0	0	0	0	0	0	0	80	327
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	42	313	551
STURGEON	0	0	0	0	0	0	20	0	99	328
VEGREVILLE	0	0	0	0	0	0	0	0	195	266
WETOKA	0	0	0	0	0	0	0	0	152	211
ALBERTA	0	0	0	0	0	0	2	20	125	382

AGE-STANDARDIZED DEATH RATES (PER 100,000 MALES), 1989

PROSTATE CANCER

HELATH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	18	7	30	10	1.00	.
ALBERTA WEST CENTRAL	19	3	40	9	1.06	.
ATHABASCA	11	4	26	22	0.61	.
BANFF NATIONAL PARK	0	0	0	25	0.00	.
BARONS-EUREKA-WARNER	41	16	67	3	2.28	YES
BIG COUNTRY	9	-9	27	23	0.50	.
CALGARY	17	12	23	12	0.94	.
CHINOOK	14	2	27	16	0.78	.
DRUMHELLER	13	-2	29	18	0.72	.
EDMONTON	15	11	20	15	0.83	.
FOOTHILLS	21	39	8	8	1.17	.
FORT MCMURRAY	53	-28	134	1	2.94	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	14	2	27	17	0.78	.
LETHBRIDGE	18	5	31	11	1.00	.
MINBURN-VERMILION	13	0	26	19	0.72	.
MOUNT VIEW	47	22	72	2	2.61	YES
NORTH EASTERN ALBERTA	7	-3	18	24	0.39	.
PEACE RIVER	24	3	46	6	1.33	.
RED DEER REGIONAL	25	13	37	5	1.39	.
SOUTHEASTERN ALBERTA	22	9	35	7	1.22	.
SOUTH PEACE	13	0	26	20	0.72	.
STONY PLAIN-LAC STE. ANNE	34	12	56	4	1.89	.
STURGEON	16	4	28	14	0.89	.
VEGREVILLE	17	3	30	13	0.94	.
WETOKA	13	0	26	21	0.72	.
ALBERTA	18	16	21			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
26
(BUFFALO NATIONAL PARK)
PEACE RIVER
6
FORT McMURRAY
1
ATHABASCA
22
SOUTH PEACE
20
(NATIONAL DEFENCE)
STURGEON
14
STONY PLAIN LAC STE. ANNE
24
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
9
4
VEGREVILLE
13
19
MINBURN VERMILION
17
LEDUC- STRATHCONA
27
JASPER
21
WETOKA
10
ALBERTA EAST CENTRAL
RED DEER
5
15
EDMONTON
2
MOUNT VIEW
DRUMHELLER
18
23
BIG COUNTRY
BANFF
25
12
CALGARY
FOOTHILLS
8
SOUTHEASTERN ALBERTA
16
CHINOOK
BARONS EUREKA WARNER
3
7
11
LETHBRIDGE

Alberta
HEALTH

3.58

PROSTATE CANCER, MALES, 1989

POTENTIAL YEARS OF LIFE LOST FROM SELECTED CAUSES

MALE, 1989

*	REGION / HEALTH UNIT	ALL CAUSES		ISCHEMIC HEART DISEASE		MOTOR VEHICLE ACCIDENTS		CEREBRO-VASCULAR DISEASE		LUNG CANCER		CHRONIC OBSTRUCTIVE LUNG DISEASE		PROSTATE CANCER		COLON CANCER		SUICIDE		ALL OTHER CAUSES	
		NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
N	ATHABASCA	1375	100	40	2.9	331	24.1	1	0.1	43	3.1	1	0.1	0	0.0	3	0.2	240	17.5	716	52.1
N	FORT MCMURRAY	864	100	51	5.9	260	30.1	40	4.6	30	3.5	0	0.0	10	1.2	0	0.0	30	3.5	443	51.2
N	HIGH LEVEL-FORT VERMILION	787	100	13	1.6	80	10.2	0	0.0	20	2.5	40	5.1	0	0.0	1	0.2	160	20.3	473	60.1
N	PEACE RIVER	1786	100	118	6.6	378	21.2	40	2.2	84	4.7	1	0.1	13	0.7	21	1.2	131	7.3	1001	56.0
N	SOUTH PEACE	2775	100	129	4.6	437	15.7	4	0.1	46	1.7	13	0.5	1	0.0	24	0.9	150	5.4	1972	71.1
	NORTH REGION SUM:	7587	100	350	4.6	1487	19.6	85	1.1	223	2.9	55	0.7	24	0.3	49	0.6	711	9.4	4604	60.7
NC	ALBERTA WEST CENTRAL	1373	100	239	17.4	290	21.1	0	0.0	31	2.3	50	3.6	11	0.8	33	2.4	230	16.8	490	35.7
NC	JASPER NATIONAL PARK	91	100	0	0.0	0	0.0	0	0.0	20	21.9	0	0.0	0	0.0	0	0.0	0	0.0	71	78.1
NC	LEDUC-STRATHCONA	2455	100	203	8.2	371	15.1	64	2.6	46	1.9	74	3.0	11	0.5	91	3.7	181	7.4	1414	57.6
NC	MINBURN-VERMILION	867	100	98	11.3	277	32.0	1	0.1	25	2.9	1	0.1	1	0.1	90	10.4	91	10.5	282	32.5
NC	NORTH EASTERN ALBERTA	1934	100	221	11.4	197	10.2	4	0.2	54	2.8	13	0.6	1	0.1	1	0.1	291	15.1	1152	59.6
NC	STONY PLAIN-LAC STE. ANNE	2076	100	248	11.9	390	18.8	1	0.1	11	0.5	4	0.2	15	0.7	4	0.2	93	4.5	1311	63.1
NC	STURGEON	3132	100	339	10.8	570	18.2	74	2.4	78	2.5	3	0.1	23	0.7	93	3.0	204	6.5	1751	55.9
NC	VEGREVILLE	706	100	69	9.7	230	32.6	1	0.2	0	0.0	3	0.4	4	0.5	20	2.8	110	15.6	270	38.2
	NORTH CENTRAL SUM:	12634	100	1415	11.2	2324	18.4	145	1.1	265	2.1	146	1.2	66	0.5	331	2.6	1200	9.5	6741	53.4
	EDMONTON BOARD OF HEALTH	18081	100	1684	9.3	1555	8.6	305	1.7	808	4.5	165	0.9	35	0.2	143	0.8	2050	11.3	11337	62.7
	CALGARY BOARD OF HEALTH	17564	100	1695	9.7	1610	9.2	395	2.2	754	4.3	215	1.2	86	0.5	204	1.2	1930	11.0	10677	60.8
SC	ALBERTA EAST CENTRAL	1688	100	126	7.5	401	23.8	14	0.8	33	1.9	6	0.4	3	0.1	11	0.7	203	12.0	891	52.8
SC	BANFF NATIONAL PARK	91	100	10	11.0	0	0.0	1	1.4	10	11.0	0	0.0	0	0.0	10	11.0	20	21.9	40	43.8
SC	BIG COUNTRY	556	100	105	18.9	200	36.0	10	1.8	20	3.6	0	0.0	0	0.0	0	0.0	40	7.2	181	32.5
SC	DRUMHELLER	999	100	160	16.0	107	10.7	24	2.4	44	4.4	11	1.1	11	1.1	11	1.1	100	10.0	531	53.1
SC	MOUNT VIEW	1835	100	85	4.6	278	15.2	23	1.2	58	3.1	14	0.7	29	1.6	3	0.1	210	11.4	1137	61.9
SC	RED DEER REGIONAL	3786	100	238	6.3	381	10.1	39	1.0	141	3.7	149	3.9	6	0.2	24	0.6	500	13.2	2309	61.0
SC	WETOKA	710	100	120	16.9	74	10.4	1	0.2	16	2.3	14	1.9	3	0.4	11	1.6	80	11.3	392	55.1
	SOUTH CENTRAL SUM:	9665	100	844	8.7	1442	14.9	111	1.2	321	3.3	194	2.0	51	0.5	70	0.7	1153	11.9	5480	56.7
S	BARONS-EUREKA-WARNER	1340	100	134	10.0	240	17.9	11	0.8	13	0.9	50	3.7	5	0.4	31	2.3	200	14.9	656	49.0
S	CHINOOK	1745	100	166	9.5	250	14.3	14	0.8	73	4.2	0	0.0	1	0.1	3	0.1	71	4.1	1168	66.9
S	FOOTHILLS	831	100	74	8.9	260	31.3	61	7.4	65	7.8	4	0.5	1	0.2	1	0.2	30	3.6	335	40.3
S	LETHBRIDGE	1682	100	243	14.4	130	7.7	43	2.5	56	3.3	13	0.7	13	0.7	15	0.9	110	6.5	1061	63.1
S	SOUTHEASTERN ALBERTA	2238	100	170	7.6	190	8.5	82	3.7	64	2.8	94	4.2	28	1.2	54	2.4	230	10.3	1327	59.3
	SOUTH REGION SUM:	7837	100	786	10.0	1070	13.7	211	2.7	270	3.4	160	2.0	48	0.6	104	1.3	641	8.2	4547	58.0
	HEALTH UNIT TOTAL	73367	100	6774	9.2	9487	12.9	1252	1.7	2730	3.7	935	1.3	310	0.4	850	1.2	7685	10.5	43344	59.1

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* N = NORTH REGION, NC = NORTH CENTRAL REGION, SC = SOUTH CENTRAL REGION, and S = SOUTH REGION

NOTE: Totals may not add-up due to rounding

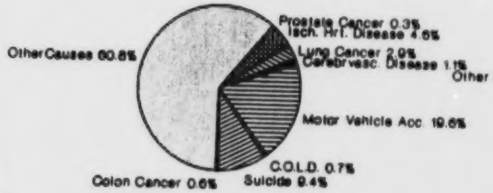
CHART 3.60

POTENTIAL YEARS OF LIFE LOST (PYLL) BY REGION, MALE, 1989

Percentage Distribution by Selected Preventable Causes

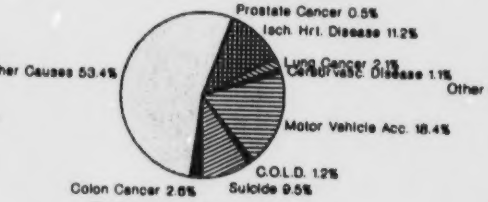
North, North Central, Edmonton, Calgary, South Central, South

NORTH REGION



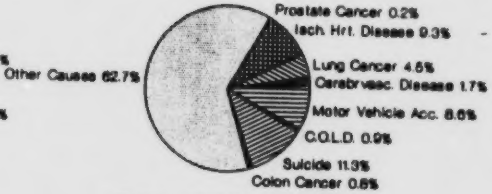
PYLL: 7,587 YEARS

NORTH CENTRAL REGION



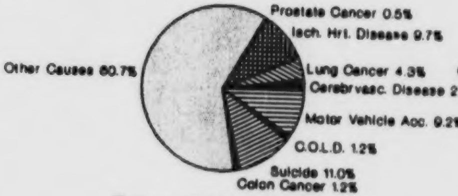
PYLL: 12,634 YEARS

EDMONTON



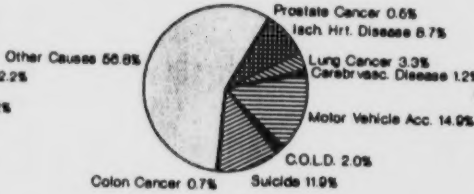
PYLL: 18,081 YEARS

CALGARY



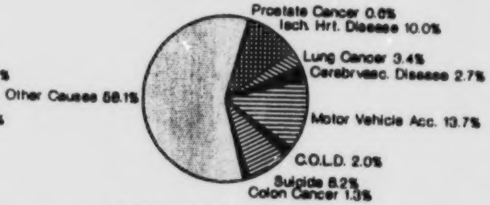
PYLL: 17,564 YEARS

SOUTH CENTRAL REGION



PYLL: 9,665 YEARS

SOUTH REGION



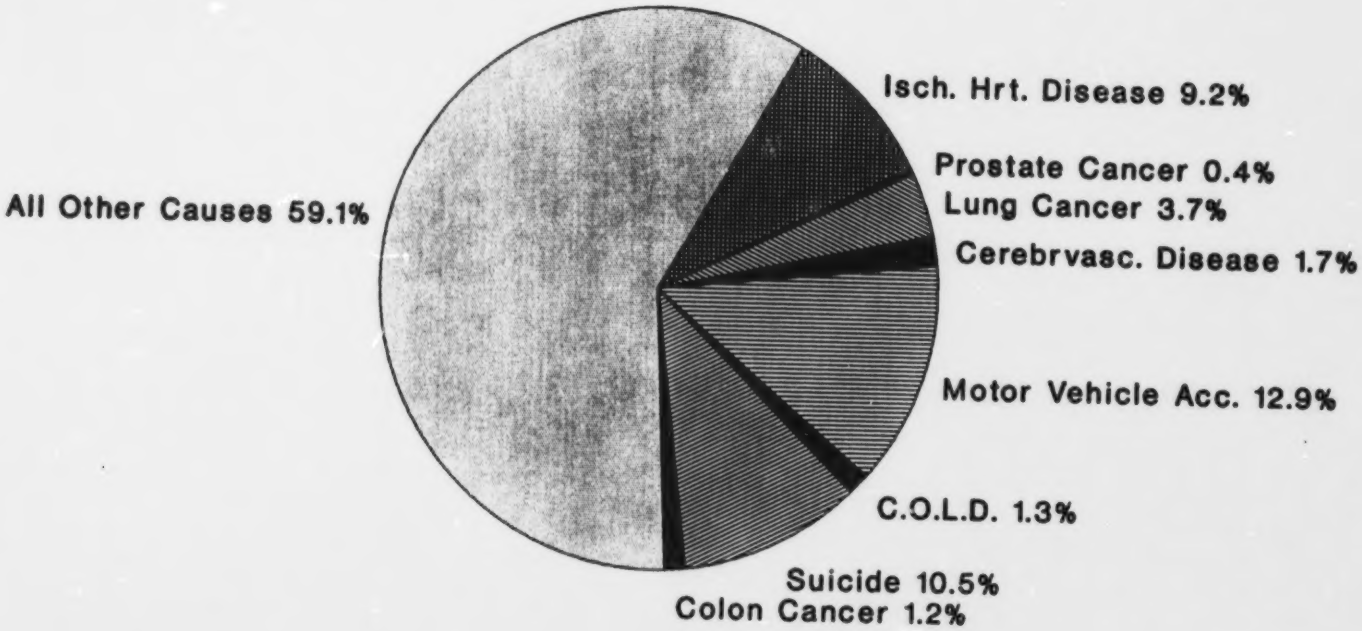
PYLL: 7,837 YEARS

CHART 3.61

POTENTIAL YEARS OF LIFE LOST (PYLL): MALE, 1989

Percentage Distribution by Selected Preventable Causes

ALBERTA HEALTH UNIT TOTAL



PYLL: 73,367 YEARS

CHAPTER 4

FEMALE DEATHS

1989

DESCRIPTION OF TABLES

This chapter deals with deaths in the female population for the year 1989, by health units of Alberta. The layout of Chapter 4 is identical to that of Chapter 3, except that it includes female breast cancer instead of prostate cancer.

The causes of death selected for study are listed along with rubrics below:

CAUSE OF DEATH	ICD-9 RUBRIC
All Causes	1 - 999
All Cancer	140 - 208
Colon Cancer	153 - 154
Lung Cancer	162
Female Breast Cancer	185
Diabetes Mellitus	250
Ischemic Heart Disease	410 - 414
Cerebrovascular Disease	430 - 438
Pneumonia	480 - 486
Chronic Obstructive Lung Disease	490 - 493, 496
Liver Cirrhosis	571
Congenital Anomaly	740 - 759
Motor Vehicle Accidents	810 - 819
Suicide	950 - 959

The causes have been ordered in the table and in the chapter in ascending order of rubric number, except for female breast cancer which has been placed at the end of the chapter. Because of this arrangement, the tables and figures in this chapter correspond by page numbers.

4.1

NUMBER IN FEMALE POPULATION, 1989

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	400	1932	4299	3614	3997	3650	2579	2601	2699	2054	27825
ALBERTA WEST CENTRAL	373	1514	3305	2978	3734	2722	1823	1058	754	498	18759
ATHABASCA	360	1215	2870	2490	2456	2057	1338	1010	779	516	15091
BANFF NATIONAL PARK	60	117	314	1107	871	561	306	208	147	93	3784
BARONS-EUREKA-WARNER	355	1522	3623	2849	2991	2627	1798	1580	1275	994	19614
BIG COUNTRY	88	456	953	852	881	781	530	609	478	365	5993
CALGARY	5439	20275	41881	50453	72341	52570	31551	24413	17057	12769	328749
CHINOOK	373	1769	3535	2813	2959	2588	1808	1783	1705	1257	20590
DRUMHELLER	299	1175	2746	2338	2612	2222	1455	1317	1298	905	16367
EDMONTON	5025	17804	35452	48810	61624	41016	28576	24426	18237	13572	294542
FOOTHILLS	255	1106	2754	2019	2714	2775	1489	1291	1298	863	16564
FORT MCMURRAY	378	1475	3648	3136	4397	3142	1080	393	224	77	17950
HIGH LEVEL-FOR VERMILION	218	787	1810	1327	1131	696	433	172	121	93	6788
JASPER NATIONAL PARK	22	102	193	444	437	219	162	93	82	82	1836
LEDUC-STRATHCONA	788	3385	9774	7318	8961	10413	5075	2876	1914	1223	51727
LETHBRIDGE	443	1690	4280	4631	5520	4327	2924	2877	2711	2302	31705
MINBURN-VERMILION	343	1381	3132	2893	3293	2636	1625	1434	1466	1185	19388
MOUNT VIEW	500	2149	5007	3784	5779	5065	2889	2060	1659	1034	29926
NORTH EASTERN ALBERTA	469	1793	4176	3880	3971	3076	1925	1459	1174	927	22850
PEACE RIVER	382	1444	3508	2849	3148	2488	1708	1225	896	613	18261
RED DEER REGIONAL	1105	4092	9427	9479	11533	8567	5445	4308	3556	2440	59952
SOUTHEASTERN ALBERTA	598	2500	5941	5627	6740	5285	3398	3271	2989	2055	38404
SOUTH PEACE	628	2478	5716	5215	6309	4461	2641	1966	1451	1100	31965
STONY PLAIN-LAC STE. ANNE	579	2469	6338	4269	6087	5586	2827	1895	1281	651	31982
STURGEON	788	3292	8671	6585	8416	8498	4571	2914	2044	1608	47387
VEGREVILLE	173	768	2271	1710	1945	1946	1462	1492	1540	1266	14573
WETOKA	321	1214	2765	2508	2963	2565	1889	1759	1503	1094	18581
ALBERTA	20762	79904	178389	185978	237810	182539	113307	90490	70338	51636	1211153

AGE DISTRIBUTION (IN %) FEMALES, 1989

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	1.4	6.9	15.5	13.0	14.4	13.1	9.3	9.4	9.7	7.4
ALBERTA WEST CENTRAL	2.0	8.1	17.6	15.9	19.9	14.5	9.7	5.6	4.0	2.7
ATHABASCA	2.4	8.1	19.0	16.5	16.3	13.6	8.9	6.7	5.2	3.4
BANFF NATIONAL PARK	1.6	3.1	8.3	29.3	23.0	14.8	8.1	5.5	3.9	2.5
BARONS-EUREKA-WARNER	1.8	7.8	18.5	14.5	15.3	13.4	9.2	8.1	6.5	5.1
BIG COUNTRY	1.5	7.6	15.9	14.2	14.7	13.0	8.8	10.2	8.0	6.1
CALGARY	1.7	6.2	12.7	15.4	22.0	16.0	9.6	7.4	5.2	3.9
CHINOOK	1.8	8.6	17.2	13.7	14.4	12.6	8.8	8.7	8.3	6.1
DRUMHELLER	1.8	7.2	16.8	14.3	16.0	13.6	8.9	8.1	7.9	5.5
EDMONTON	1.7	6.0	12.0	16.6	20.1	13.9	9.7	8.3	6.2	4.6
FOOTHILLS	1.5	6.7	16.6	12.2	16.4	16.8	9.0	7.8	7.8	5.2
FORT MCMURRAY	2.1	8.2	20.3	17.5	24.5	17.5	6.0	2.2	1.3	0.4
HIGH LEVEL-FOR VERMILION	3.2	11.6	26.7	19.6	16.7	10.3	6.4	2.5	1.8	1.4
JASPER NATIONAL PARK	1.2	5.6	10.5	24.2	23.8	11.9	8.8	5.1	4.5	4.5
LEDUC-STRATHCONA	1.5	6.5	18.9	14.2	17.3	20.1	9.8	5.6	3.7	2.4
LETHBRIDGE	2.3	5.3	13.5	14.6	17.4	13.7	9.2	9.1	8.6	7.3
MINBURN-VERMILION	1.8	7.1	16.2	14.9	17.0	13.6	8.4	7.4	7.6	6.1
MOUNT VIEW	1.7	7.2	16.7	12.6	19.3	16.9	9.7	6.9	5.6	3.5
NORTH EASTERN ALBERTA	2.1	7.9	18.3	17.0	17.4	13.5	8.4	6.4	5.1	4.1
PEACE RIVER	2.1	7.9	19.2	15.6	17.2	13.6	9.4	6.7	4.9	3.4
RED DEER REGIONAL	1.8	6.8	15.7	15.8	19.2	14.3	9.1	7.2	5.9	4.1
SOUTHEASTERN ALBERTA	1.6	6.5	15.5	14.7	17.6	13.8	8.5	7.8	7.8	5.4
SOUTH PEACE	2.0	7.8	17.9	16.3	19.7	14.0	8.3	6.2	4.5	3.4
STONY PLAIN-LAC STE. ANNE	1.8	7.7	19.8	13.4	19.0	17.5	8.8	5.9	4.0	2.0
STURGEON	1.7	7.0	18.3	13.9	17.8	17.9	9.7	6.2	4.3	3.4
VEGREVILLE	1.2	5.3	15.6	11.7	13.4	13.4	10.0	10.2	10.6	8.7
WETOKA	1.7	6.5	14.9	13.5	16.0	13.8	10.2	9.5	8.1	5.9
ALBERTA	1.7	6.6	14.7	15.4	19.6	15.1	9.4	7.5	5.8	4.3

4.3

NUMBER OF FEMALE DEATHS, 1989

ALL CAUSES

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	3	0	3	2	1	4	6	15	54	130	218
ALBERTA WEST CENTRAL	2	1	3	3	3	5	5	10	14	39	85
ATHABASCA	5	1	0	3	1	2	4	9	13	34	72
BANFF NATIONAL PARK	0	0	0	0	1	0	0	1	1	4	7
BARONS-EUREKA-WARNER	2	1	0	1	2	6	9	6	18	48	93
BIG COUNTRY	0	0	0	0	1	0	1	3	8	28	41
CALGARY	28	3	5	13	24	40	73	169	310	848	1513
CHINOOK	6	0	1	2	4	7	3	14	21	73	131
DRUMHELLER	0	0	1	2	2	3	4	7	19	63	101
EDMONTON	31	9	6	13	47	54	95	168	260	840	1523
FOOTHILLS	2	1	0	1	0	2	4	7	18	59	94
FORT MCMURRAY	2	1	0	2	3	2	7	3	3	3	26
HIGH LEVEL-FOR VERMILION	3	1	1	1	1	2	0	0	2	3	14
JASPER NATIONAL PARK	0	0	0	0	0	0	0	1	0	3	4
LEDUC-STRATHCONA	2	2	3	6	6	6	10	23	31	85	174
LETHBRIDGE	4	0	2	2	3	3	7	17	34	137	209
MINBURN-VERMILION	1	0	0	2	1	4	6	7	13	65	99
MOUNT VIEW	2	1	2	2	3	9	5	15	30	75	144
NORTH EASTERN ALBERTA	5	1	1	1	3	3	4	4	27	48	97
PEACE RIVER	0	1	1	3	2	3	8	9	11	66	104
RED DEER REGIONAL	8	3	1	4	9	7	22	32	52	158	296
SOUTHEASTERN ALBERTA	4	0	3	3	1	2	5	24	44	130	216
SOUTH PEACE	3	1	1	1	2	1	6	12	24	59	110
STONY PLAIN-LAC STE. ANNE	3	0	1	3	1	8	13	8	26	43	106
STURGEON	5	2	2	4	6	5	9	17	39	99	188
VEGREVILLE	0	1	0	1	2	5	7	4	21	74	115
WETOKA	0	0	0	2	0	2	2	9	21	60	99
ALBERTA	124	30	37	77	129	185	315	594	1114	3274	5879

4.4

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1989

ALL CAUSES

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	750	0	70	55	25	110	233	577	2001	6329
ALBERTA WEST CENTRAL	536	66	91	101	80	184	274	945	1857	7831
ATHABASCA	1389	82	0	120	41	97	299	891	1669	6589
BANFF NATIONAL PARK	0	0	0	0	115	0	0	481	680	4301
BARONS-EUREKA-WARNER	563	66	0	35	67	228	501	380	1412	4829
BIG COUNTRY	0	0	0	0	114	0	189	493	1674	7671
CALGARY	515	15	12	26	33	76	231	692	1817	6641
CHINOOK	1609	0	28	71	135	270	166	785	1232	5807
DRUMHELLER	0	0	36	86	77	135	275	532	1464	6961
EDMONTON	617	51	17	27	76	132	332	688	1426	6189
FOOTHILLS	784	90	0	50	0	72	269	542	1387	6837
FORT MCMURRAY	529	68	0	64	68	64	648	763	1339	3896
HIGH LEVEL-FOR VERMILION	1376	127	55	75	88	287	0	0	1653	3226
JASPER NATIONAL PARK	0	0	0	0	0	0	0	1075	0	3659
LEDUC-STRATHCONA	254	59	31	82	67	58	197	800	1620	6950
LETHBRIDGE	903	0	47	43	54	69	239	591	1254	5951
MINBURN-VERMILION	292	0	0	69	30	152	369	488	887	5485
MOUNT VIEW	400	47	40	53	52	178	173	728	1808	7253
NORTH EASTERN ALBERTA	1066	56	24	26	76	98	208	274	2300	5178
PEACE RIVER	0	69	29	105	64	121	468	735	1228	10767
RED DEER REGIONAL	724	73	11	42	78	82	404	743	1462	6475
SOUTHEASTERN ALBERTA	669	0	50	53	15	38	147	734	1472	6326
SOUTH PEACE	478	40	17	19	32	22	227	610	1654	5364
STONY PLAIN-LAC STE. ANNE	518	0	16	70	16	143	460	422	2030	6605
STURGEON	635	61	23	61	71	59	197	583	1908	6157
VEGREVILLE	0	130	0	58	103	257	479	268	1364	5845
WETOKA	935	0	0	80	0	78	106	512	1397	5484
ALBERTA	597	38	21	41	54	101	278	656	1584	6341

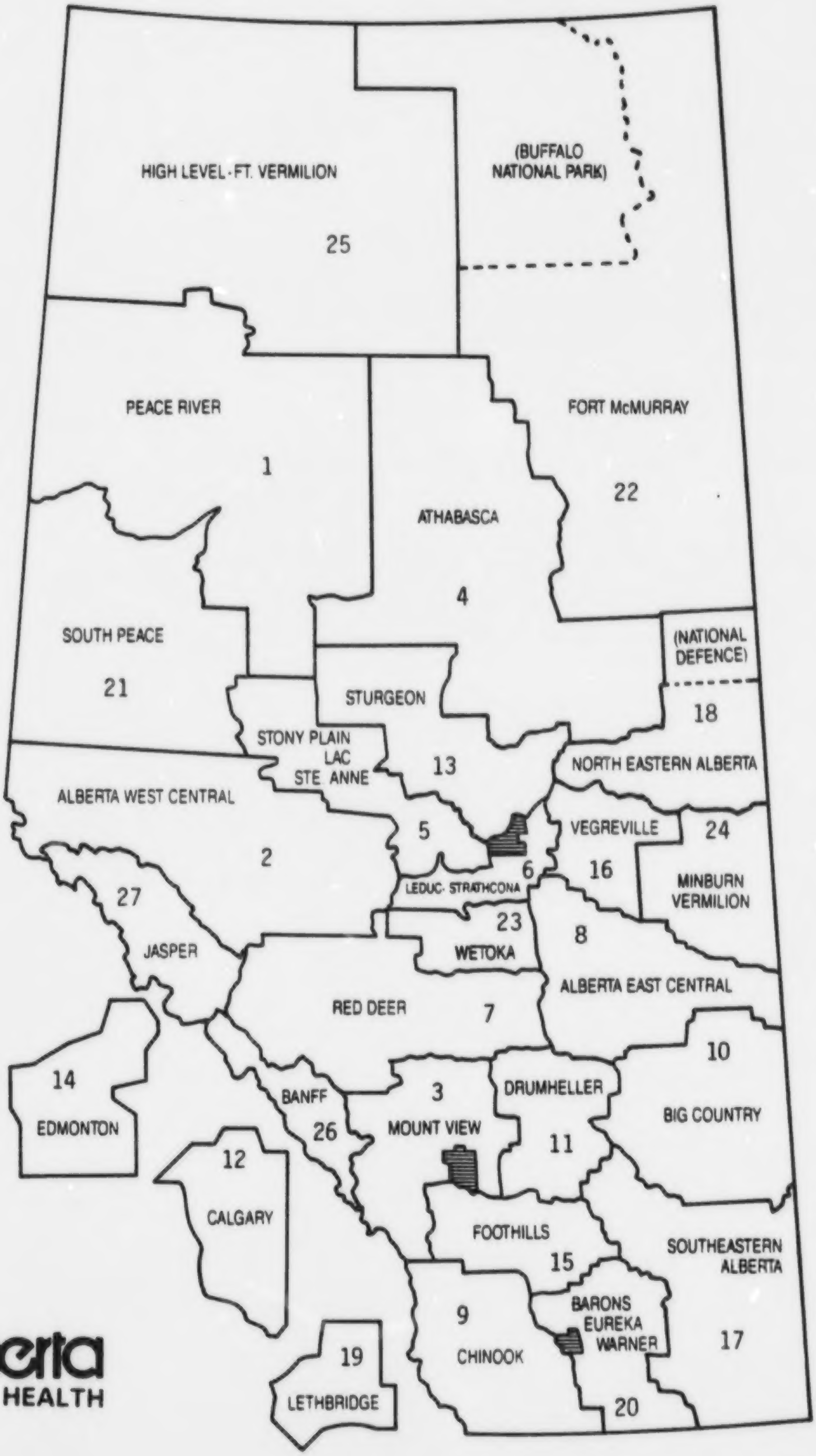
4.5

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1989

ALL CAUSES

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	504	435	573	8	1.04	.
ALBERTA WEST CENTRAL	624	489	759	2	1.29	YES
ATHABASCA	543	416	669	4	1.12	.
BANFF NATIONAL PARK	281	69	494	26	0.58	.
BARONS-EUREKA-WARNER	430	342	518	20	0.89	.
BIG COUNTRY	501	346	656	10	1.03	.
CALGARY	496	471	521	12	1.02	.
CHINOOK	503	415	592	9	1.04	.
DRUMHELLER	501	402	600	11	1.03	.
EDMONTON	484	460	509	14	1.00	.
FOOTHILLS	476	379	572	15	0.98	.
FORT MCMURRAY	408	184	632	22	0.84	.
HIGH LEVEL-FOR VERMILION	346	126	566	25	0.71	.
JASPER NATIONAL PARK	236	0	473	27	0.49	.
LEDUC-STRATHCONA	516	437	594	6	1.06	.
LETHBRIDGE	443	381	505	19	0.91	.
MINBURN-VERMILION	401	320	481	24	0.83	.
MOUNT VIEW	546	456	635	3	1.13	.
NORTH EASTERN ALBERTA	453	363	544	18	0.93	.
PEACE RIVER	685	553	817	1	1.41	YES
RED DEER REGIONAL	507	449	565	7	1.05	.
SOUTHEASTERN ALBERTA	459	398	521	17	0.95	.
SOUTH PEACE	418	339	496	21	0.86	.
STONY PLAIN-LAC STE. ANNE	521	417	624	5	1.07	.
STURGEON	486	416	556	13	1.00	.
VEGREVILLE	470	378	561	16	0.97	.
WETOKA	403	323	483	23	0.83	.
ALBERTA	485	473	498			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
25
(BUFFALO NATIONAL PARK)
PEACE RIVER
1
FORT McMURRAY
22
ATHABASCA
4
SOUTH PEACE
21
(NATIONAL DEFENCE)
18
STURGEON
STONY PLAIN LAC STE ANNE
13
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
5
VEGREVILLE
24
2
6
16
MINBURN VERMILION
27
LEDUC - STRATHCONA
23
8
JASPER
WETOKA
ALBERTA EAST CENTRAL
RED DEER
7
10
14
EDMONTON
BANFF
3
MOUNT VIEW
DRUMHELLER
BIG COUNTRY
26
11
12
CALGARY
FOOTHILLS
15
SOUTHEASTERN ALBERTA
BARONS EUREKA WARNER
9
CHINOOK
17
19
LETHBRIDGE
20

Alberta
HEALTH

4.6
ALL CAUSES, FEMALES, 1989

4.7

NUMBER OF FEMALE DEATHS, 1989

ALL CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	1	0	1	3	8	22	22	57
ALBERTA WEST CENTRAL	0	0	0	0	0	3	4	4	5	11	27
ATHABASCA	0	0	0	0	0	0	1	7	7	8	23
BANFF NATIONAL PARK	0	0	0	0	0	0	0	1	1	0	2
BARONS-EUREKA-WARNER	0	0	0	0	1	4	6	3	10	13	37
BIG COUNTRY	0	0	0	0	1	0	1	2	2	3	9
CALGARY	0	1	0	1	6	17	42	100	126	139	432
CHINOOK	0	0	0	0	3	4	2	5	7	11	32
DRUMHELLER	0	0	0	0	0	1	2	2	8	12	25
EDMONTON	0	0	1	1	4	20	35	82	110	149	402
FOOTHILLS	0	0	0	0	0	0	3	5	12	7	27
FORT MCMURRAY	0	0	0	0	2	1	3	1	1	0	8
HIGH LEVEL-FOR VERMILION	0	0	0	0	0	1	0	0	0	1	2
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	1	1	5	6	15	16	12	56
LETHBRIDGE	0	0	0	0	1	0	4	8	11	27	51
MINBURN-VERMILION	0	0	0	0	1	1	2	1	6	6	17
MOUNT VIEW	0	0	2	0	3	2	5	9	10	11	42
NORTH EASTERN ALBERTA	0	0	0	0	0	0	2	3	7	7	19
PEACE RIVER	0	0	0	0	0	2	6	4	4	10	26
RED DEER REGIONAL	0	0	1	0	4	2	14	13	21	17	72
SOUTHEASTERN ALBERTA	0	0	0	1	0	1	1	13	24	26	66
SOUTH PEACE	0	0	0	0	0	0	3	6	9	12	30
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	4	6	5	14	6	35
STURGEON	0	0	0	0	2	1	4	9	17	13	46
VEGREVILLE	0	0	0	0	0	2	1	2	10	21	36
WETOKA	0	0	0	0	0	0	2	5	5	10	22
ALBERTA	0	1	4	5	29	72	158	313	465	554	1601

4.8

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1989

ALL CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	28	0	27	116	308	815	1071
ALBERTA WEST CENTRAL	0	0	0	0	0	110	219	378	663	2209
ATHABASCA	0	0	0	0	0	0	75	693	899	1550
BANFF NATIONAL PARK	0	0	0	0	0	0	0	481	680	0
BARONS-EUREKA-WARNER	0	0	0	0	33	152	334	190	784	1308
BIG COUNTRY	0	0	0	0	114	0	189	328	418	822
CALGARY	0	5	0	2	8	32	133	410	739	1089
CHINOOK	0	0	0	0	101	155	111	280	411	875
DRUMHELLER	0	0	0	0	0	45	137	152	616	1326
EDMONTON	0	0	3	2	6	49	122	336	603	1098
FOOTHILLS	0	0	0	0	0	0	201	387	924	811
FORT MCMURRAY	0	0	0	0	45	32	278	254	446	0
HIGH LEVEL-FOR VERMILION	0	0	0	0	0	144	0	0	0	1075
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	14	11	48	118	522	836	981
LETHBRIDGE	0	0	0	0	18	0	137	278	406	1173
MINBURN-VERMILION	0	0	0	0	30	38	123	70	409	506
MOUNT VIEW	0	0	40	0	52	39	173	437	603	1064
NORTH EASTERN ALBERTA	0	0	0	0	0	0	104	206	596	755
PEACE RIVER	0	0	0	0	0	80	351	327	446	1631
RED DEER REGIONAL	0	0	11	0	35	23	257	302	591	697
SOUTHEASTERN ALBERTA	0	0	0	18	0	19	29	397	803	1265
SOUTH PEACE	0	0	0	0	0	0	114	305	620	1091
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	72	212	264	1093	922
STURGEON	0	0	0	0	24	12	88	309	832	808
VEGREVILLE	0	0	0	0	0	103	68	134	649	1659
WETOKA	0	0	0	0	0	0	106	284	333	914
ALBERTA	0	1	2	3	12	39	139	346	661	1073

4.9

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1989

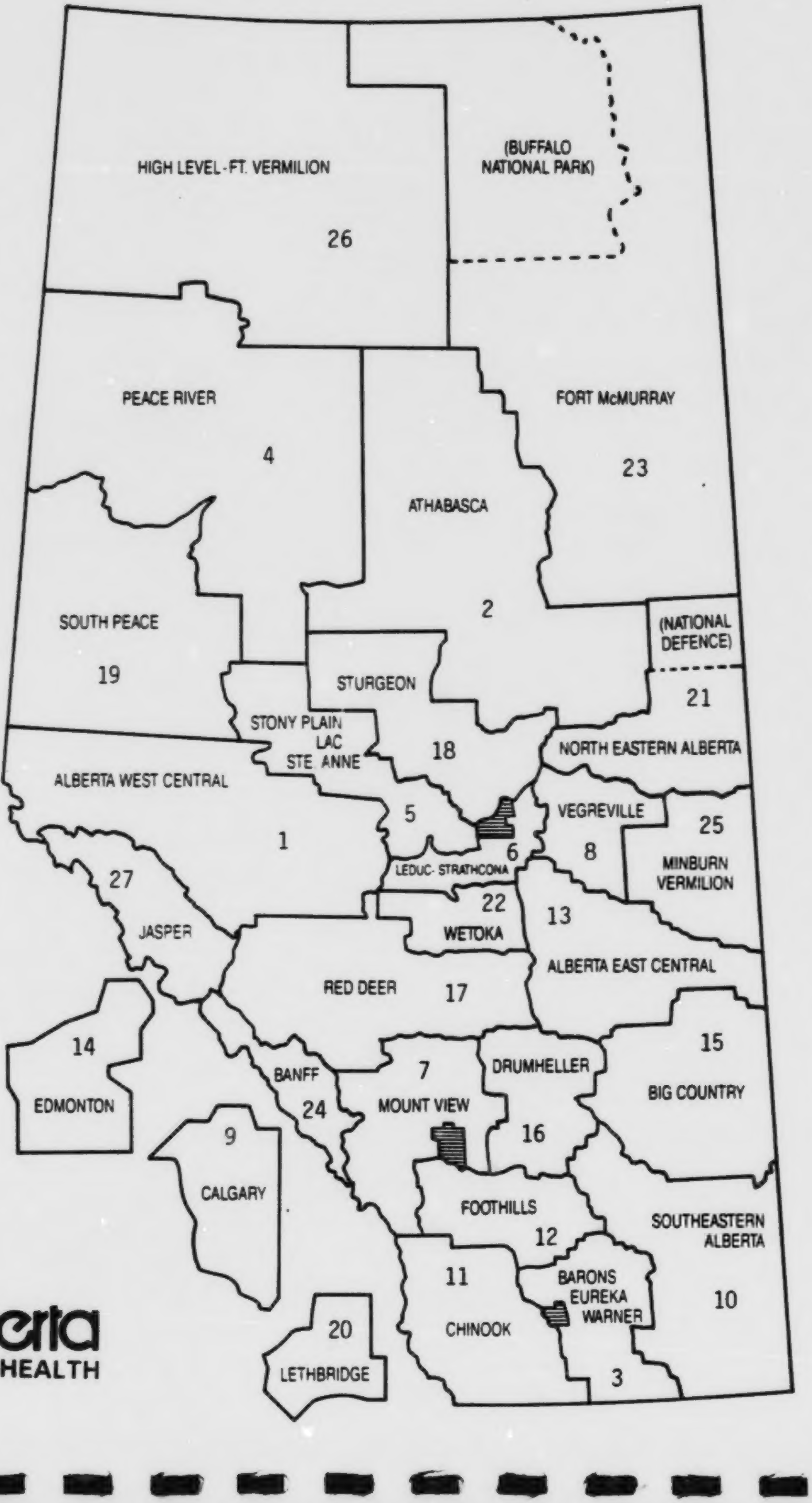
ALL CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	135	99	171	13	1.02	.
ALBERTA WEST CENTRAL	198	122	274	1	1.50	YES
ATHABASCA	177	105	250	2	1.34	.
BANFF NATIONAL PARK	75	-29	180	24	0.57	.
BARONS-EUREKA-WARNER	176	119	233	3	1.33	.
BIG COUNTRY	124	40	207	15	0.94	.
CALGARY	139	126	153	9	1.05	.
CHINOOK	136	87	184	11	1.03	.
DRUMHELLER	123	75	172	16	0.93	.
EDMONTON	128	115	140	14	0.97	.
FOOTHILLS	136	84	188	12	1.03	.
FORT MCMURRAY	85	13	156	23	0.64	.
HIGH LEVEL-FOR VERMILION	67	-32	167	26	0.51	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	152	111	193	6	1.15	.
LETHBRIDGE	111	80	142	20	0.84	.
MINBURN-VERMILION	74	38	110	25	0.56	.
MOUNT VIEW	151	105	197	7	1.14	.
NORTH EASTERN ALBERTA	92	51	133	21	0.70	.
PEACE RIVER	165	101	228	4	1.25	.
RED DEER REGIONAL	122	94	151	17	0.92	.
SOUTHEASTERN ALBERTA	139	105	172	10	1.05	.
SOUTH PEACE	116	74	157	19	0.88	.
STONY PLAIN-LAC STE. ANNE	153	101	206	5	1.16	.
STURGEON	120	85	155	18	0.91	.
VEGREVILLE	140	93	188	8	1.06	.
WETOKA	89	52	127	22	0.67	.
ALBERTA	132	126	139			

4.10

ALL CANCER, FEMALES, 1989

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
26
(BUFFALO NATIONAL PARK)
PEACE RIVER
4
FORT McMURRAY
23
ATHABASCA
2
SOUTH PEACE
19
(NATIONAL DEFENCE)
21
STURGEON
STONY PLAIN LAC STE. ANNE
18
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
5
VEGREVILLE
25
1
6
8
MINBURN VERMILION
27
LEDUC-STRATHCONA
22
JASPER
WETOKA
13
ALBERTA EAST CENTRAL
RED DEER
17
14
15
EDMONTON
BANFF
24
7
MOUNT VIEW
DRUMHELLER
16
BIG COUNTRY
9
CALGARY
FOOTHILLS
12
SOUTHEASTERN ALBERTA
11
BARONS EUREKA WARNER
10
20
CHINOOK
LETHBRIDGE
3

Alberta
HEALTH

NUMBER OF FEMALE DEATHS, 1989

COLON CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	1	0	7	3	11
ALBERTA WEST CENTRAL	0	0	0	0	0	1	0	1	0	2	4
ATHABASCA	0	0	0	0	0	0	0	1	0	2	3
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	5	5
BIG COUNTRY	0	0	0	0	0	0	0	1	0	0	1
CALGARY	0	0	0	0	0	1	1	7	10	15	34
CHINOOK	0	0	0	0	0	0	0	0	0	2	2
DRUMHELLER	0	0	0	0	0	0	1	0	0	0	1
EDMONTON	0	0	0	0	0	1	2	6	11	20	40
FOOTHILLS	0	0	0	0	0	0	1	1	0	1	3
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FOR VERMILION	0	0	0	0	0	0	0	0	0	1	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	2	1	0	3
LETHBRIDGE	0	0	0	0	0	0	0	0	1	5	6
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	1	1
MOUNT VIEW	0	0	0	0	0	0	0	2	2	1	5
NORTH EASTERN ALBERTA	0	0	0	0	0	0	1	0	0	0	1
PEACE RIVER	0	0	0	0	0	0	0	0	0	0	0
RED DEER REGIONAL	0	0	0	0	0	0	0	2	1	1	4
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	5	3	8
SOUTH PEACE	0	0	0	0	0	0	0	0	1	3	4
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	1	1	2
STURGEON	0	0	0	0	0	0	0	1	2	1	4
VEGREVILLE	0	0	0	0	0	0	0	0	0	4	4
WETOKA	0	0	0	0	0	0	0	0	0	3	3
ALBERTA	0	0	0	0	0	3	7	24	42	74	150

4.12

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1989

COLON CANCER

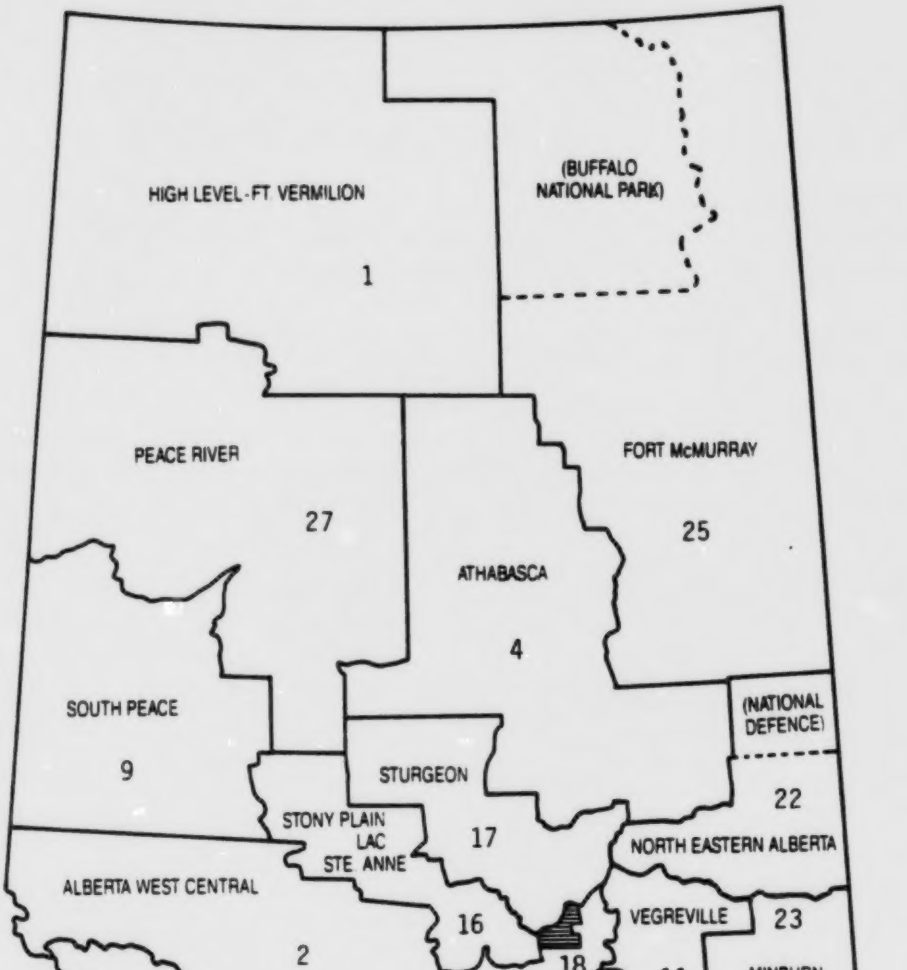
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	39	0	259	146
ALBERTA WEST CENTRAL	0	0	0	0	0	37	0	95	0	402
ATHABASCA	0	0	0	0	0	0	0	99	0	388
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	503
BIG COUNTRY	0	0	0	0	0	0	0	164	0	0
CALGARY	0	0	0	0	0	2	3	29	59	117
CHINOOK	0	0	0	0	0	0	0	0	0	159
DRUMHELLER	0	0	0	0	0	0	69	0	0	0
EDMONTON	0	0	0	0	0	2	7	25	60	147
FOOTHILLS	0	0	0	0	0	0	67	77	0	116
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FOR VERMILION	0	0	0	0	0	0	0	0	0	1075
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	70	52	0
LETHBRIDGE	0	0	0	0	0	0	0	0	37	217
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	84
MOUNT VIEW	0	0	0	0	0	0	0	97	121	97
NORTH EASTERN ALBERTA	0	0	0	0	0	0	52	0	0	0
PEACE RIVER	0	0	0	0	0	0	0	0	0	0
RED DEER REGIONAL	0	0	0	0	0	0	0	46	28	41
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	167	146
SOUTH PEACE	0	0	0	0	0	0	0	0	69	273
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	78	154
STURGEON	0	0	0	0	0	0	0	34	98	62
VEGREVILLE	0	0	0	0	0	0	0	0	0	316
WETOKA	0	0	0	0	0	0	0	0	0	274
ALBERTA	0	0	0	0	0	2	6	27	60	143

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1989

COLON CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	25	10	40	3	2.08	.
ALBERTA WEST CENTRAL	30	0	59	2	2.50	.
ATHABASCA	24	-3	51	4	2.00	.
BANFF NATIONAL PARK	0	0	0	24	0.00	.
BARONS-EUREKA-WARNER	21	3	40	5	1.75	.
BIG COUNTRY	12	-12	36	12	1.00	.
CALGARY	11	7	15	14	0.92	.
CHINOOK	7	-3	16	19	0.58	.
DRUMHELLER	6	-6	19	21	0.50	.
EDMONTON	13	9	17	10	1.08	.
FOOTHILLS	17	-2	36	7	1.42	.
FORT MCMURRAY	0	0	0	25	0.00	.
HIGH LEVEL-FOR VERMILION	46	-44	136	1	3.83	.
JASPER NATIONAL PARK	0	0	0	26	0.00	.
LEDUC-STRATHCONA	8	-1	18	18	0.67	.
LETHBRIDGE	11	2	21	15	0.92	.
MINBURN-VERMILION	4	-3	11	23	0.33	.
MOUNT VIEW	18	2	35	6	1.50	.
NORTH EASTERN ALBERTA	5	-5	14	22	0.42	.
PEACE RIVER	0	0	0	27	0.00	.
RED DEER REGIONAL	7	0	14	20	0.58	.
SOUTHEASTERN ALBERTA	16	5	27	8	1.33	.
SOUTH PEACE	16	0	31	9	1.33	.
STONY PLAIN-LAC STE. ANNE	11	-5	27	16	0.92	.
STURGEON	11	0	22	17	0.92	.
VEGREVILLE	13	0	27	11	1.08	.
WETOKA	12	-2	25	13	1.00	.
ALBERTA	12	10	14			

HEALTH UNITS OF ALBERTA



HIGH LEVEL - FT. VERMILION
1
(BUFFALO NATIONAL PARK)
PEACE RIVER
27
FORT McMURRAY
25
ATHABASCA
4
SOUTH PEACE
9
(NATIONAL DEFENCE)
STURGEON
17
22
STONY PLAIN LAC STE. ANNE
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
2
16
18
VEGREVILLE
11
23
MINBURN VERMILION
LEDUC - STRATHCONA
26
JASPER
13
WETOKA
3
ALBERTA EAST CENTRAL
RED DEER
20
10
EDMONTON
BANFF
24
6
MOUNT VIEW
DRUMHELLER
21
12
BIG COUNTRY
14
CALGARY
FOOTHILLS
7
SOUTHEASTERN ALBERTA
19
CHINOOK
BARONS EUREKA WARNER
5
8
15
LETHBRIDGE

Alberta HEALTH

4.14

COLON CANCER, FEMALES, 1989

NUMBER OF FEMALE DEATHS, 1989

LUNG CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	2	3	2	7
ALBERTA WEST CENTRAL	0	0	0	0	0	0	3	0	2	0	5
ATHABASCA	0	0	0	0	0	0	0	2	1	0	3
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	1	1	1	0	2	0	5
BIG COUNTRY	0	0	0	0	0	0	0	0	1	0	1
CALGARY	0	0	0	0	0	3	10	23	30	20	86
CHINOOK	0	0	0	0	0	0	0	0	2	1	3
DRUMHELLER	0	0	0	0	0	0	0	0	1	1	2
EDMONTON	0	0	0	0	0	3	4	14	22	20	63
FOOTHILLS	0	0	0	0	0	0	2	2	3	1	8
FORT MCMURRAY	0	0	0	0	0	0	2	1	0	0	3
HIGH LEVEL-FOR VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	1	0	1	1	3	3	9
LETHBRIDGE	0	0	0	0	0	0	0	1	3	4	8
MINBURN-VERMILION	0	0	0	0	0	0	1	1	0	2	4
MOUNT VIEW	0	0	0	0	0	0	1	1	1	0	3
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	2	1	3
PEACE RIVER	0	0	0	0	0	0	1	1	1	2	5
RED DEER REGIONAL	0	0	0	0	0	0	8	1	6	5	20
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	4	3	5	12
SOUTH PEACE	0	0	0	0	0	0	1	3	0	4	8
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	1	1	0	6	0	8
STURGEON	0	0	0	0	0	0	1	1	2	1	5
VEGREVILLE	0	0	0	0	0	0	0	0	0	1	1
WETOKA	0	0	0	0	0	0	1	2	0	1	4
ALBERTA	0	0	0	0	2	8	38	60	94	74	276

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1989

LUNG CANCER

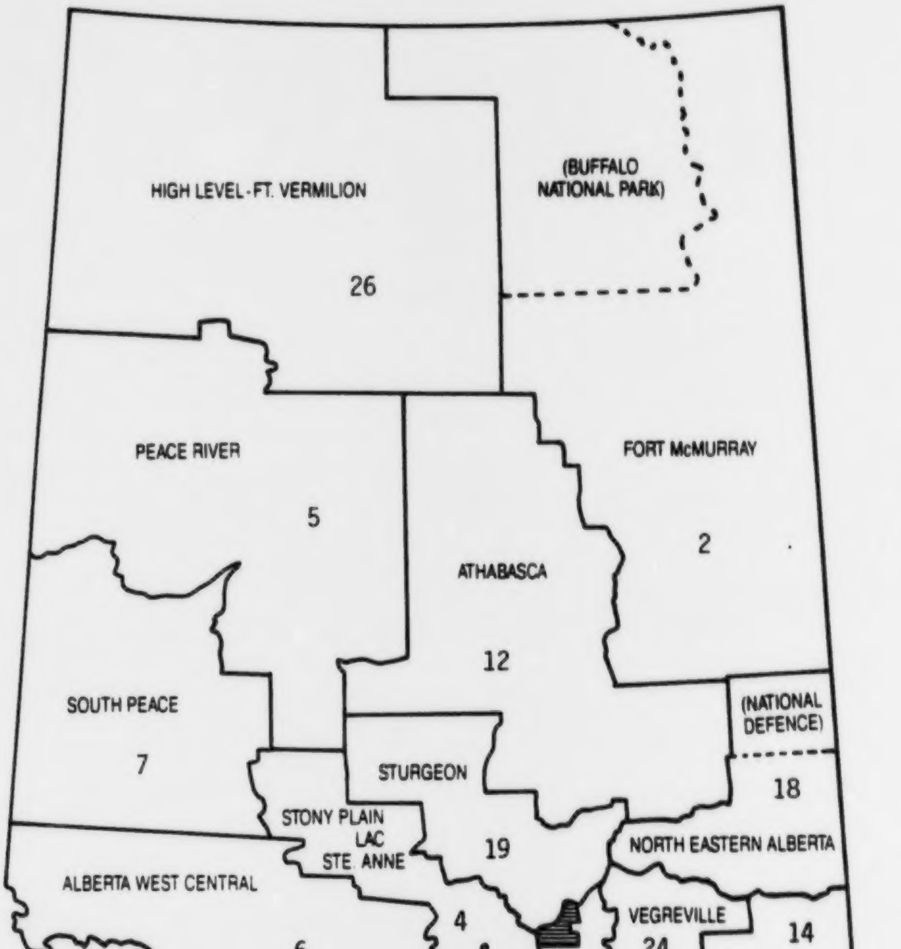
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	77	111	97
ALBERTA WEST CENTRAL	0	0	0	0	0	0	165	0	265	0
ATHABASCA	0	0	0	0	0	0	0	198	128	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	33	38	56	0	157	0
BIG COUNTRY	0	0	0	0	0	0	0	0	209	0
CALGARY	0	0	0	0	0	6	32	94	176	157
CHINOOK	0	0	0	0	0	0	0	0	117	80
DRUMHELLER	0	0	0	0	0	0	0	0	77	110
EDMONTON	0	0	0	0	0	7	14	57	121	147
FOOTHILLS	0	0	0	0	0	0	134	155	231	116
FORT MCMURRAY	0	0	0	0	0	0	185	254	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	11	0	20	35	157	245
LETHBRIDGE	0	0	0	0	0	0	0	35	111	174
MINBURN-VERMILION	0	0	0	0	0	0	62	70	0	169
MOUNT VIEW	0	0	0	0	0	0	35	49	60	0
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	170	108
PEACE RIVER	0	0	0	0	0	0	59	82	112	326
RED DEER REGIONAL	0	0	0	0	0	0	147	23	169	205
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	122	100	243
SOUTH PEACE	0	0	0	0	0	0	38	153	0	364
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	18	35	0	468	0
STURGEON	0	0	0	0	0	0	22	34	98	62
VEGREVILLE	0	0	0	0	0	0	0	0	0	79
WETOKA	0	0	0	0	0	0	53	114	0	91
ALBERTA	0	0	0	0	1	4	34	66	134	143

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1989

LUNG CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	16	4	29	16	0.70	.
ALBERTA WEST CENTRAL	31	3	58	6	1.35	.
ATHABASCA	22	-3	47	12	0.96	.
BANFF NATIONAL PARK	0	0	0	25	0.00	.
BARONS-EUREKA-WARNER	27	3	50	9	1.17	.
BIG COUNTRY	12	-12	36	20	0.52	.
CALGARY	28	22	34	8	1.22	.
CHINOOK	10	-1	22	21	0.43	.
DRUMHELLER	9	4	22	23	0.39	.
EDMONTON	20	15	25	13	0.87	.
FOOTHILLS	43	13	72	1	1.87	.
FORT MCMURRAY	36	-8	81	2	1.57	.
HIGH LEVEL-FORT VERMILION	0	0	0	26	0.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	26	9	44	10	1.13	.
LETHBRIDGE	16	5	28	17	0.70	.
MINBURN-VERMILION	18	0	36	14	0.78	.
MOUNT VIEW	10	-1	22	22	0.43	.
NORTH EASTERN ALBERTA	14	-2	31	18	0.61	.
PEACE RIVER	32	4	60	5	1.39	.
RED DEER REGIONAL	34	19	49	3	1.48	.
SOUTHEASTERN ALBERTA	25	11	40	11	1.09	.
SOUTH PEACE	30	9	52	7	1.30	.
STONY PLAIN-LAC STE. ANNE	33	10	57	4	1.43	.
STURGEON	13	2	24	19	0.57	.
VEGREVILLE	3	3	10	24	0.13	.
WETOKA	17	0	34	15	0.74	.
ALBERTA	23	20	25			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
26
(BUFFALO NATIONAL PARK)
PEACE RIVER
5
FORT McMURRAY
2
ATHABASCA
12
SOUTH PEACE
7
(NATIONAL DEFENCE)
18
STURGEON
STONY PLAIN LAC STE. ANNE
19
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
4
VEGREVILLE
24
14
MINBURN VERMILION
6
10
LEDUC - STRATHCONA
27
15
WETOKA
16
JASPER
ALBERTA EAST CENTRAL
RED DEER
3
13
EDMONTON
20
22
DRUMHELLER
BANFF
25
MOUNT VIEW
BIG COUNTRY
23
8
CALGARY
FOOTHILLS
1
SOUTHEASTERN ALBERTA
21
BARONS EUREKA WARNER
11
CHINOOK
17
LETHBRIDGE
9

Alberta
HEALTH

LUNG CANCER, FEMALES, 1989

4.18

4.19

NUMBER OF FEMALE DEATHS, 1989

DIABETES MELLITUS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	1	0	4	5
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	2	2
ATHABASCA	0	0	0	0	0	0	0	0	1	1	2
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	2	0	2
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	1	0	1	1	3	7	13	26
CHINOOK	0	0	0	0	0	0	0	0	1	2	3
DRUMHELLER	0	0	0	0	0	0	0	0	1	1	2
EDMONTON	0	0	0	1	0	0	1	3	7	15	27
FOOTHILLS	0	0	0	0	0	0	1	0	0	0	1
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	1	0	0	1
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	1	3	4
LETHBRIDGE	0	0	0	1	0	0	0	0	1	5	7
MINBURN-VERMILION	0	0	0	0	0	0	0	1	0	0	1
MOUNT VIEW	0	0	0	0	0	0	0	1	1	2	4
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	2	2	4
PEACE RIVER	0	0	0	0	0	0	0	1	0	3	4
RED DEER REGIONAL	0	0	0	0	0	0	0	0	1	3	4
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	1	4	5
SOUTH PEACE	0	0	0	0	0	0	0	0	3	1	4
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	2	2
STURGEON	0	0	0	0	0	0	0	0	1	2	3
VEGREVILLE	0	0	0	0	0	0	0	0	0	2	2
WETOKA	0	0	0	0	0	0	0	0	1	0	1
ALBERTA	0	0	0	3	0	1	3	11	31	67	116

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1989

DIABETES MELLITUS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	38	0	195
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	402
ATHABASCA	0	0	0	0	0	0	0	0	128	194
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	157	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	2	0	2	3	12	41	102
CHINOOK	0	0	0	0	0	0	0	0	59	159
DRUMHELLER	0	0	0	0	0	0	0	0	77	110
EDMONTON	0	0	0	2	0	0	3	12	38	111
FOOTHILLS	0	0	0	0	0	0	67	0	0	0
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	1075	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	52	245
LETHBRIDGE	0	0	0	22	0	0	0	0	37	217
MINBURN-VERMILION	0	0	0	0	0	0	0	70	0	0
MOUNT VIEW	0	0	0	0	0	0	0	49	60	193
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	170	216
PEACE RIVER	0	0	0	0	0	0	0	82	0	489
RED DEER REGIONAL	0	0	0	0	0	0	0	0	28	123
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	33	195
SOUTH PEACE	0	0	0	0	0	0	0	0	207	91
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	307
STURGEON	0	0	0	0	0	0	0	0	69	124
VEGREVILLE	0	0	0	0	0	0	0	0	0	158
WETOKA	0	0	0	0	0	0	0	0	67	0
ALBERTA	0	0	0	2	0	1	3	12	44	130

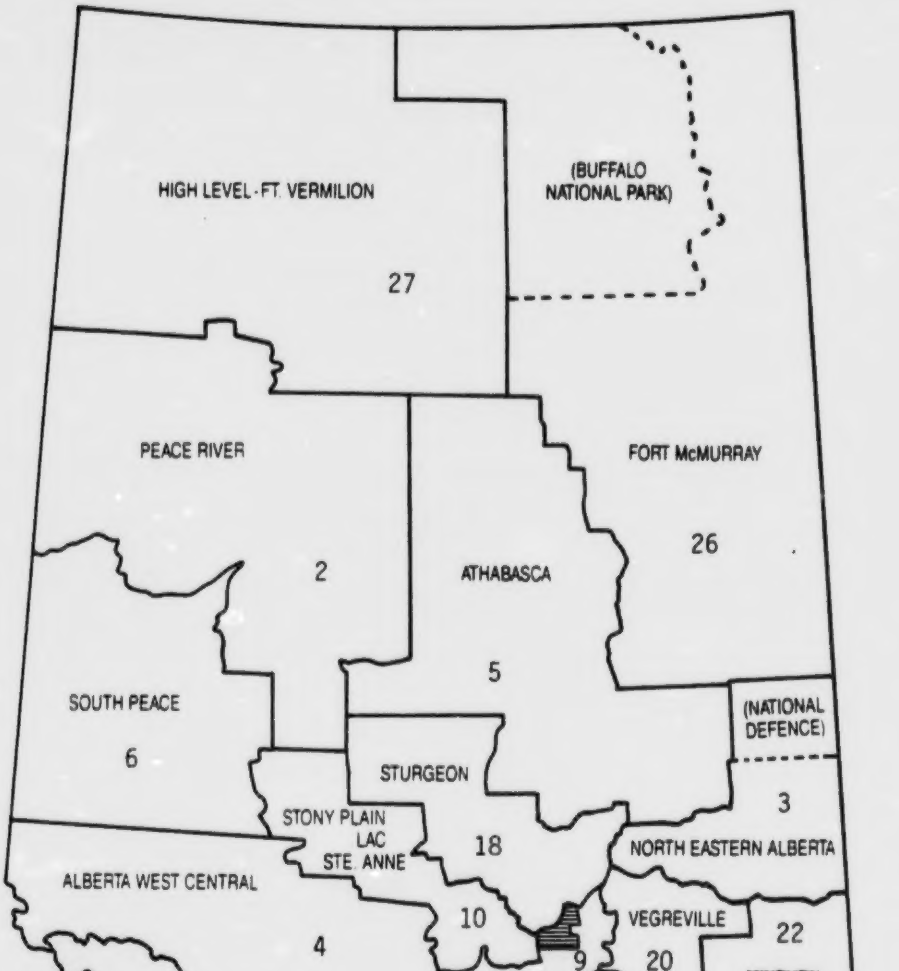
4.21

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1989

DIABETES MELLITUS

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	11	1	21	11	1.1	.
ALBERTA WEST CENTRAL	17	7	41	4	1.7	.
ATHABASCA	16	-6	38	5	1.6	.
BANFF NATIONAL PARK	0	0	0	24	0.0	.
BARONS-EUREKA-WARNER	9	-4	22	14	0.9	.
BIG COUNTRY	0	0	0	25	0.0	.
CALGARY	9	5	12	15	0.9	.
CHINOOK	10	-1	22	12	1.0	.
DRUMHELLER	9	-4	22	16	0.9	.
EDMONTON	9	5	12	17	0.9	.
FOOTHILLS	6	-6	19	21	0.6	.
FORT MCMURRAY	0	0	0	26	0.0	.
HIGH LEVEL-FORT VERMILION	0	0	0	27	0.0	.
JASPER NATIONAL PARK	80	-77	238	1	8.0	.
LEDUC-STRATHCONA	13	0	27	9	1.3	.
LETHBRIDGE	15	4	26	7	1.5	.
MINBURN-VERMILION	5	-5	15	22	0.5	.
MOUNT VIEW	15	0	30	8	1.5	.
NORTH EASTERN ALBERTA	19	0	38	3	1.9	.
PEACE RIVER	27	0	53	2	2.7	.
RED DEER REGIONAL	7	0	14	19	0.7	.
SOUTHEASTERN ALBERTA	10	1	19	13	1.0	.
SOUTH PEACE	16	0	31	6	1.6	.
STONY PLAIN-LAC STE. ANNE	13	-5	31	10	1.3	.
STURGEON	8	-1	17	18	0.8	.
VEGREVILLE	7	-3	16	20	0.7	.
WETOKA	4	-4	11	23	0.4	.
ALBERTA	10	8	11			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
27
(BUFFALO NATIONAL PARK)
PEACE RIVER
2
FORT McMURRAY
26
ATHABASCA
5
SOUTH PEACE
6
(NATIONAL DEFENCE)
STURGEON
18
3
NORTH EASTERN ALBERTA
STONY PLAIN LAC STE. ANNE
ALBERTA WEST CENTRAL
4
10
9
VEGREVILLE
20
22
MINBURN VERMILION
LEDUC - STRATHCONA
1
JASPER
23
WETOKA
11
ALBERTA EAST CENTRAL
RED DEER
19
25
17
EDMONTON
BANFF
24
8
MOUNT VIEW
DRUMHELLER
16
BIG COUNTRY
15
CALGARY
FOOTHILLS
21
SOUTHEASTERN ALBERTA
12
CHINOOK
BARONS EUREKA WARNER
13
14
7
LETHBRIDGE

Alberta
HEALTH

NUMBER OF FEMALE DEATHS, 1989

ISCHEMIC HEART DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	2	11	32	45
ALBERTA WEST CENTRAL	0	0	0	0	0	0	1	2	4	8	15
ATHABASCA	0	0	0	0	0	0	0	2	1	6	9
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	1	4	8	13
BIG COUNTRY	0	0	0	0	0	0	0	0	2	8	10
CALGARY	0	0	0	0	0	0	5	19	65	194	283
CHINOOK	0	0	0	0	0	0	0	3	2	19	24
DRUMHELLER	0	0	0	0	0	2	0	1	1	10	14
EDMONTON	0	0	0	1	1	3	6	17	44	222	294
FOOTHILLS	0	0	0	0	0	0	0	1	2	18	21
FORT MCMURRAY	0	0	0	0	1	0	2	1	1	1	6
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	1	0	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	4	4	22	30
LETHBRIDGE	0	0	0	0	0	0	0	4	10	35	49
MINBURN-VERMILION	0	0	0	0	0	1	2	2	5	25	35
MOUNT VIEW	0	0	0	0	0	0	0	2	7	25	34
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	8	11	19
PEACE RIVER	0	0	0	0	0	0	0	0	1	19	20
RED DEER REGIONAL	0	0	0	0	0	0	1	6	8	32	47
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	2	5	30	37
SOUTH PEACE	0	0	0	0	0	0	0	1	6	8	15
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	2	1	3	10	16
STURGEON	0	0	0	0	0	0	0	1	11	27	39
VEGREVILLE	0	0	0	0	0	0	2	1	5	21	29
WETOKA	0	0	0	0	0	0	0	1	8	12	21
ALBERTA	0	0	0	1	2	6	21	74	219	803	1126

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1989

ISCHEMIC HEART DISEASE

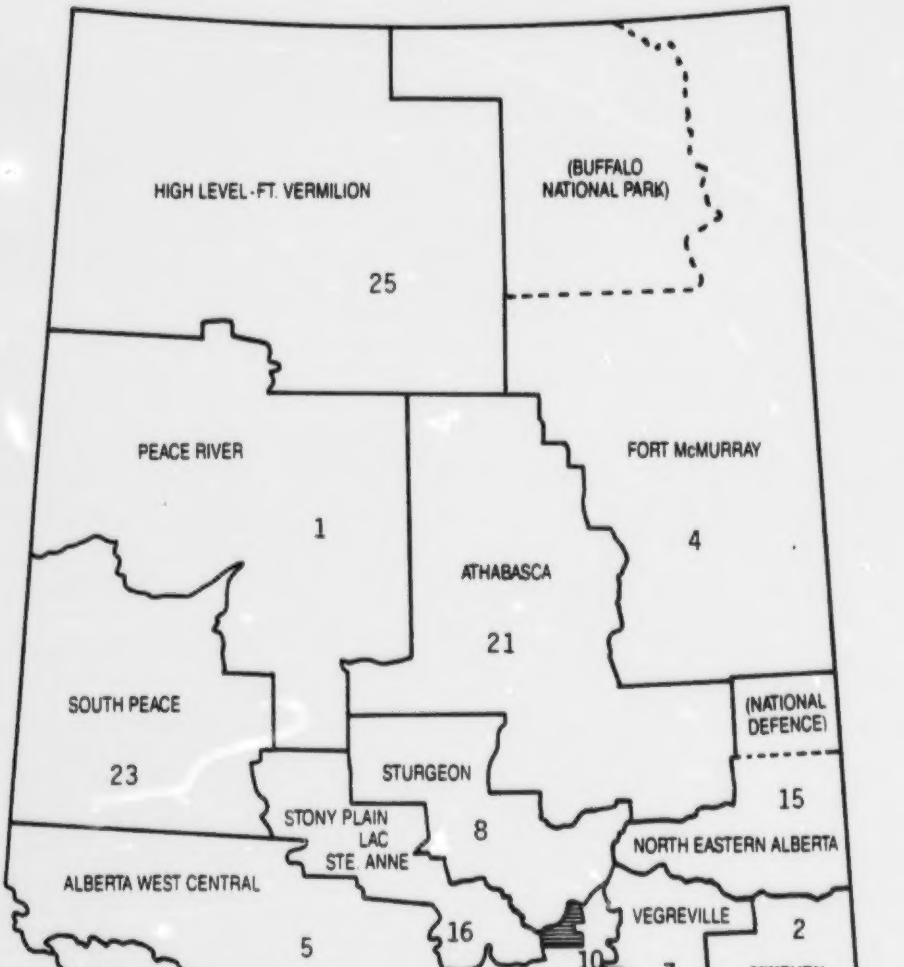
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	77	408	1558
ALBERTA WEST CENTRAL	0	0	0	0	0	0	55	189	531	1606
ATHABASCA	0	0	0	0	0	0	0	198	128	1163
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	63	314	805
BIG COUNTRY	0	0	0	0	0	0	0	0	418	2192
CALGARY	0	0	0	0	0	0	16	78	381	1519
CHINOOK	0	0	0	0	0	0	0	168	117	1512
DRUMHELLER	0	0	0	0	0	90	0	76	77	1105
EDMONTON	0	0	0	2	2	7	21	70	241	1636
FOOTHILLS	0	0	0	0	0	0	0	77	154	2086
FORT MCMURRAY	0	0	0	0	23	0	185	254	446	1299
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	826	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	139	209	1799
LETHBRIDGE	0	0	0	0	0	0	0	139	369	1520
MINBURN-VERMILION	0	0	0	0	0	38	123	139	341	2110
MOUNT VIEW	0	0	0	0	0	0	0	97	422	2418
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	681	1187
PEACE RIVER	0	0	0	0	0	0	0	0	112	3100
RED DEER REGIONAL	0	0	0	0	0	0	18	139	225	1311
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	61	167	1460
SOUTH PEACE	0	0	0	0	0	0	0	51	414	727
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	71	53	234	1536
STURGEON	0	0	0	0	0	0	0	34	538	1679
VEGREVILLE	0	0	0	0	0	0	137	67	325	1659
WETOKA	0	0	0	0	0	0	0	57	532	1097
ALBERTA	0	0	0	1	1	3	19	82	311	1555

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1989

ISCHEMIC HEART DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	96	68	124	12	1.03	.
ALBERTA WEST CENTRAL	119	58	179	5	1.28	.
ATHABASCA	72	25	119	21	0.77	.
BANFF NATIONAL PARK	0	0	0	26	0.00	.
BARONS-EUREKA-WARNER	57	26	88	24	0.61	.
BIG COUNTRY	118	45	191	6	1.27	.
CALGARY	94	83	105	13	1.01	.
CHINOOK	84	50	117	17	0.90	.
DRUMHELLER	71	33	108	22	0.76	.
EDMONTON	93	82	103	14	1.00	.
FOOTHILLS	104	59	148	9	1.12	.
FORT MCMURRAY	122	-6	250	4	1.31	.
HIGH LEVEL-FORT VERMILION	48	-46	142	25	0.52	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	99	64	135	10	1.06	.
LETHBRIDGE	97	69	124	11	1.04	.
MINBURN-VERMILION	137	91	184	2	1.47	YES
MOUNT VIEW	135	89	180	3	1.45	YES
NORTH EASTERN ALBERTA	90	50	131	15	0.97	.
PEACE RIVER	139	78	199	1	1.69	.
RED DEER REGIONAL	81	58	104	19	0.87	.
SOUTHEASTERN ALBERTA	77	52	101	20	0.83	.
SOUTH PEACE	59	29	89	23	0.63	.
STONY PLAIN-LAC STE. ANNE	90	45	135	16	0.97	.
STURGEON	105	72	139	8	1.13	.
VEGREVILLE	107	67	147	7	1.15	.
WETOKA	82	47	117	18	0.88	.
ALBERTA	93	88	98			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
25
(BUFFALO NATIONAL PARK)
PEACE RIVER
1
FORT McMURRAY
4
ATHABASCA
21
SOUTH PEACE
23
(NATIONAL DEFENCE)
STURGEON
8
STONY PLAIN LAC STE. ANNE
15
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
VEGREVILLE
2
16
5
10
7
MINBURN VERMILION
27
LEDUC- STRATHCONA
JASPER
18
WETOKA
12
ALBERTA EAST CENTRAL
RED DEER
19
6
14
3
DRUMHELLER
BANFF
MOUNT VIEW
BIG COUNTRY
EDMONTON
26
22
13
CALGARY
FOOTHILLS
9
SOUTHEASTERN ALBERTA
17
BARONS EUREKA WARNER
20
11
CHINOOK
24
LETHBRIDGE

Alberta
HEALTH

4.26

ISCHEMIC HEART DISEASE, FEMALES, 1989

4.27

NUMBER OF FEMALE DEATHS, 1989

CEREBROVASCULAR DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	20	20
ALBERTA WEST CENTRAL	0	0	0	0	1	0	0	1	3	6	11
ATHABASCA	0	0	0	0	0	0	0	0	1	2	3
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	1	1
BARONS-EUREKA-WARNER	0	0	0	0	0	0	1	0	0	13	14
BIG COUNTRY	0	0	0	0	0	0	0	1	2	5	8
CALGARY	0	0	0	0	1	2	6	8	17	124	158
CHINOOK	0	0	0	0	0	0	0	2	2	14	18
DRUMHELLER	0	0	0	0	0	0	0	1	2	12	15
EDMONTON	0	0	0	0	0	3	7	15	27	114	166
FOOTHILLS	0	0	0	0	0	1	0	0	1	9	11
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	1	0	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	1	0	0	1	0	2	15	19
LETHBRIDGE	0	0	0	0	0	0	0	0	4	19	23
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	9	9
MOUNT VIEW	0	0	0	0	0	0	0	0	1	12	13
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	5	7
PEACE RIVER	0	0	0	0	0	0	0	1	1	10	12
RED DEER REGIONAL	0	0	0	0	0	0	1	2	7	27	37
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	1	1	4	21	27
SOUTH PEACE	0	0	0	0	0	0	0	2	0	8	10
STONY PLAIN-LAC STE. ANNE	0	0	1	0	0	0	0	0	0	5	6
STURGEON	0	0	0	0	0	0	0	0	1	15	16
VEGREVILLE	0	0	0	0	0	0	0	1	0	11	12
WETOKA	0	0	0	0	0	0	0	0	0	10	10
ALBERTA	0	0	1	1	2	7	17	35	77	487	627

4.28

AGE -SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1989

CEREBROVASCULAR DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	974
ALBERTA WEST CENTRAL	0	0	0	0	27	0	0	95	398	1205
ATHABASCA	0	0	0	0	0	0	0	0	128	388
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	1075
BARONS-EUREKA-WARNER	0	0	0	0	0	0	56	0	0	1308
BIG COUNTRY	0	0	0	0	0	0	0	164	418	1370
CALGARY	0	0	0	0	1	4	19	33	100	971
CHINOOK	0	0	0	0	0	0	0	112	117	1114
DRUMHELLER	0	0	0	0	0	0	0	76	154	1326
EDMONTON	0	0	0	0	0	7	24	61	148	840
FOOTHILLS	0	0	0	0	0	36	0	0	77	1043
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	826	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	14	0	0	20	0	104	1226
LETHBRIDGE	0	0	0	0	0	0	0	0	148	825
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	759
MOUNT VIEW	0	0	0	0	0	0	0	0	60	1161
NORTH EASTERN ALBERTA	0	0	0	0	0	33	0	0	85	539
PEACE RIVER	0	0	0	0	0	0	0	82	112	1631
RED DEER REGIONAL	0	0	0	0	0	0	18	46	197	1107
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	29	31	134	1022
SOUTH PEACE	0	0	0	0	0	0	0	102	0	727
STONY PLAIN-LAC STE. ANNE	0	0	16	0	0	0	0	0	0	768
STURGEON	0	0	0	0	0	0	0	0	49	933
VEGREVILLE	0	0	0	0	0	0	0	67	0	869
WETOKA	0	0	0	0	0	0	0	0	0	914
ALBERTA	0	0	1	1	1	4	15	39	109	943

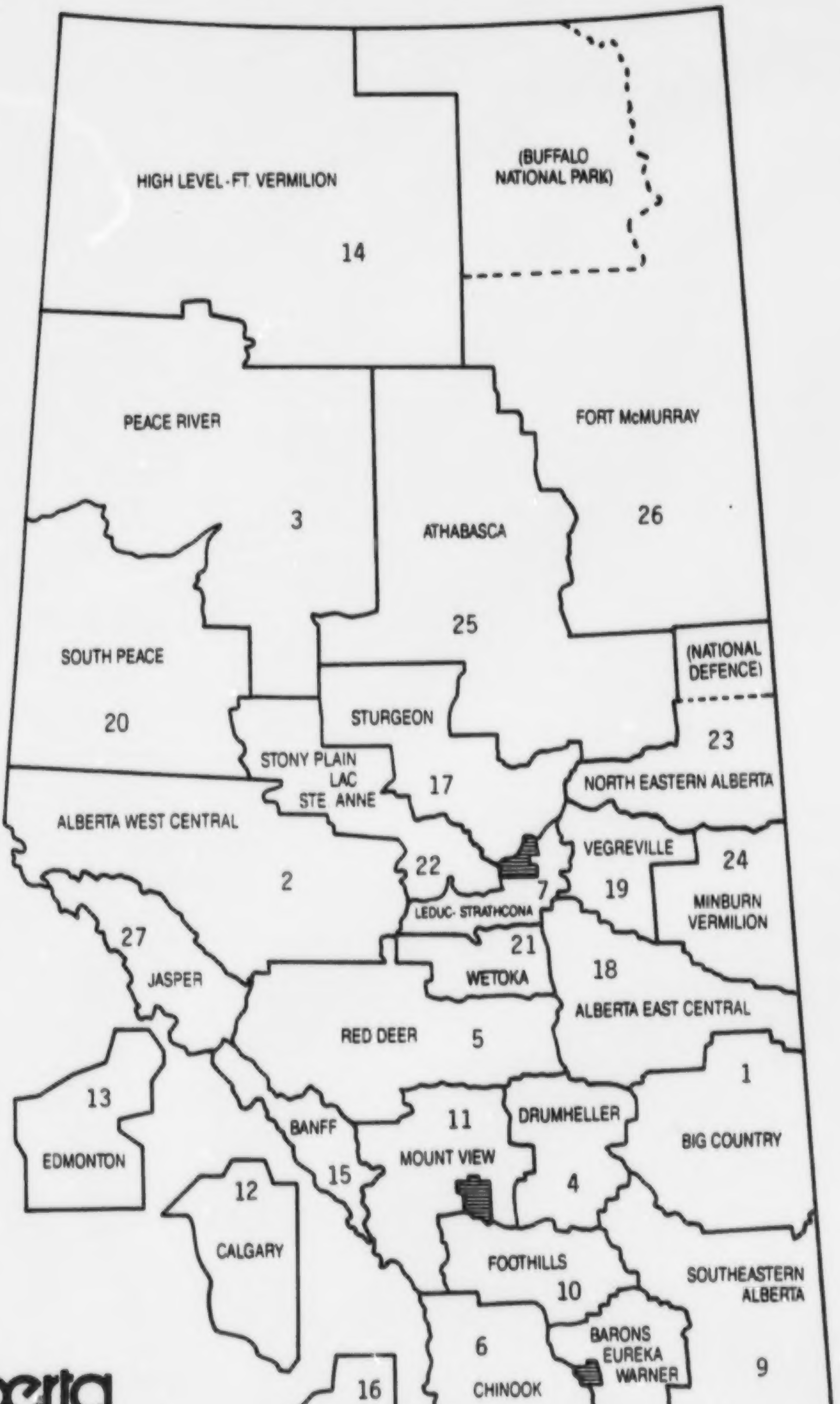
AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1989

CEREBROVASCULAR DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	42	23	60	18	0.81	.
ALBERTA WEST CENTRAL	87	35	138	2	1.67	.
ATHABASCA	24	-3	51	25	0.46	.
BANFF NATIONAL PARK	46	-44	136	15	0.88	.
BARONS-EUREKA-WARNER	61	29	93	8	1.17	.
BIG COUNTRY	95	29	161	1	1.83	.
CALGARY	52	44	60	12	1.00	.
CHINOOK	63	34	92	6	1.21	.
DRUMHELLER	71	35	107	4	1.37	.
EDMONTON	52	44	60	13	1.00	.
FOOTHILLS	54	22	87	10	1.04	.
FORT MCMURRAY	0	0	0	26	0.00	.
HIGH LEVEL-FORT VERMILION	48	-46	142	14	0.92	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	62	34	91	7	1.19	.
LETHBRIDGE	44	26	62	16	0.85	.
MINBURN-VERMILION	32	11	54	24	0.62	.
MOUNT VIEW	53	24	82	11	1.02	.
NORTH EASTERN ALBERTA	33	9	57	23	0.63	.
PEACE RIVER	82	36	129	3	1.58	.
RED DEER REGIONAL	64	43	84	5	1.23	.
SOUTHEASTERN ALBERTA	56	35	78	9	1.08	.
SOUTH PEACE	39	15	63	20	0.75	.
STONY PLAIN-LAC STE. ANNE	35	6	64	22	0.67	.
STURGEON	43	22	63	17	0.83	.
VEGREVILLE	42	18	66	19	0.81	.
WETOKA	39	15	63	21	0.75	.
ALBERTA	52	48	56			

CEREBROVASCULAR DISEASE, FEMALES, 1989

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
14
(BUFFALO NATIONAL PARK)
PEACE RIVER
3
FORT McMURRAY
26
ATHABASCA
25
SOUTH PEACE
20
(NATIONAL DEFENCE)
STURGEON
23
STONY PLAIN LAC STE ANNE
17
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
VEGREVILLE
24
22
19
2
7
MINBURN VERMILION
LEDUC - STRATHCONA
27
21
JASPER
WETOKA
18
ALBERTA EAST CENTRAL
RED DEER
5
1
13
11
DRUMHELLER
BANFF
BIG COUNTRY
MOUNT VIEW
EDMONTON
15
12
4
CALGARY
FOOTHILLS
SOUTHEASTERN ALBERTA
10
BARONS EUREKA WARNER
6
9
16
CHINOOK
LETHBRIDGE
8

Alberta
HEALTH

4.31

NUMBER OF FEMALE DEATHS, 1989

PNEUMONIA

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	1	12	13
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	1	4	5
ATHABASCA	0	0	0	0	0	0	0	0	0	1	1
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	1	1
BIG COUNTRY	0	0	0	0	0	0	0	0	0	1	1
CALGARY	0	0	0	0	0	0	0	0	6	41	48
CHINOOK	0	0	0	0	0	0	0	0	0	2	2
DRUMHELLER	0	0	0	0	0	0	0	0	0	9	9
EDMONTON	0	1	0	0	1	1	2	2	4	42	53
FOOTHILLS	0	0	0	0	0	0	0	0	0	3	3
FORT MCMURRAY	0	0	0	0	0	0	0	1	0	1	2
HIGH LEVEL-FORT VERMILION	0	1	0	0	0	0	0	0	0	0	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	3	3
LETHBRIDGE	0	0	0	0	0	0	1	0	0	9	10
MINBURN-VERMILION	0	0	0	0	0	0	0	0	1	5	6
MOUNT VIEW	0	0	0	0	0	0	0	0	1	8	9
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	2	2
PEACE RIVER	0	0	0	0	0	0	0	1	1	3	5
RED DEER REGIONAL	0	0	0	0	0	0	2	1	1	25	29
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	0	4	4
SOUTH PEACE	0	0	0	0	0	0	0	0	0	5	5
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	1	0	2	3
STURGEON	0	0	0	0	0	0	0	0	0	6	6
VEGREVILLE	0	0	0	0	0	0	0	0	1	4	5
WETOKA	0	0	0	0	0	0	0	1	0	9	10
ALBERTA	1	2	0	0	1	1	5	7	17	202	236

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1989

PNEUMONIA

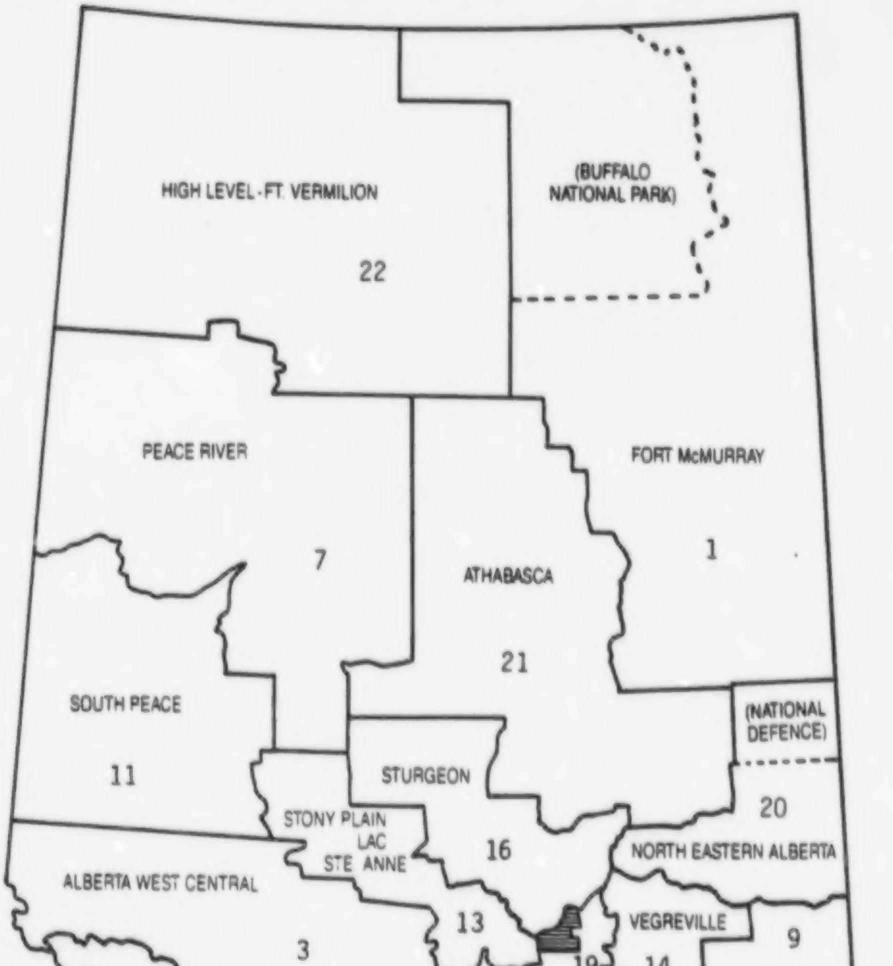
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	37	584
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	133	803
ATHABASCA	0	0	0	0	0	0	0	0	0	194
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	101
BIG COUNTRY	0	0	0	0	0	0	0	0	0	274
CALGARY	18	0	0	0	0	0	0	0	35	321
CHINOOK	0	0	0	0	0	0	0	0	0	159
DRUMHELLER	0	0	0	0	0	0	0	0	0	994
EDMONTON	0	6	0	0	2	2	7	8	22	309
FOOTHILLS	0	0	0	0	0	0	0	0	0	348
FORT MCMURRAY	0	0	0	0	0	0	0	254	0	1299
HIGH LEVEL-FORT VERMILION	0	127	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	245
LETHBRIDGE	0	0	0	0	0	0	34	0	0	391
MINBURN-VERMILION	0	0	0	0	0	0	0	0	68	422
MOUNT VIEW	0	0	0	0	0	0	0	0	60	774
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	0	0	216
PEACE RIVER	0	0	0	0	0	0	0	82	112	489
RED DEER REGIONAL	0	0	0	0	0	0	37	23	28	1025
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	0	0	0	195
SOUTH PEACE	0	0	0	0	0	0	0	0	0	455
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	53	0	307
STURGEON	0	0	0	0	0	0	0	0	0	373
VEGREVILLE	0	0	0	0	0	0	0	0	65	316
WETOKA	0	0	0	0	0	0	0	57	0	823
ALBERTA	5	3	0	0	0	1	4	8	24	391

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1989

PNEUMONIA

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	27	12	42	8	1.42	.
ALBERTA WEST CENTRAL	42	5	79	3	2.21	.
ATHABASCA	8	-8	24	21	0.42	.
BANFF NATIONAL PARK	0	0	0	26	0.00	.
BARONS-EUREKA-WARNER	4	-4	13	25	0.21	.
BIG COUNTRY	12	-11	35	18	0.63	.
CALGARY	16	12	21	15	0.84	.
CHINOOK	7	-3	16	24	0.37	.
DRUMHELLER	42	15	70	4	2.21	.
EDMONTON	17	12	21	12	0.89	.
FOOTHILLS	15	-2	32	17	0.79	.
FORT MCMURRAY	74	-40	189	1	3.89	.
HIGH LEVEL-FORT VERMILION	8	-8	25	22	0.42	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	10	-1	22	19	0.53	.
LETHBRIDGE	20	7	32	10	1.05	.
MINBURN-VERMILION	22	4	40	9	1.16	.
MOUNT VIEW	36	13	60	6	1.89	.
NORTH EASTERN ALBERTA	9	-4	22	20	0.47	.
PEACE RIVER	33	4	63	7	1.74	.
RED DEER REGIONAL	50	32	69	2	2.63	YES
SOUTHEASTERN ALBERTA	8	0	16	23	0.42	.
SOUTH PEACE	19	2	36	11	1.00	.
STONY PLAIN-LAC STE. ANNE	17	-3	37	13	0.89	.
STURGEON	16	3	29	16	0.84	.
VEGREVILLE	17	2	32	14	0.89	.
WETOKA	39	15	64	5	2.05	.
ALBERTA	19	17	22			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
22
(BUFFALO NATIONAL PARK)
PEACE RIVER
7
FORT McMURRAY
1
ATHABASCA
21
SOUTH PEACE
11
(NATIONAL DEFENCE)
STURGEON
20
STONY PLAIN LAC STE ANNE
16
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
13
VEGREVILLE
9
3
19
14
MINBURN VERMILION
LEDUC - STRATHCONA
27
5
8
JASPER
WETOKA
ALBERTA EAST CENTRAL
RED DEER
2
12
18
BANFF
6
DRUMHELLER
26
MOUNT VIEW
BIG COUNTRY
EDMONTON
4
15
CALGARY
FOOTHILLS
SOUTHEASTERN ALBERTA
17
24
BARONS EUREKA WARNER
10
CHINOOK
23
LETHBRIDGE
25

Alberta
HEALTH

4.34

PNEUMONIA, FEMALES, 1989

NUMBER OF FEMALE DEATHS, 1989

CHRONIC OBSTRUCTIVE LUNG DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	2	1	3
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	2	2
ATHABASCA	0	0	0	0	0	0	0	0	0	2	2
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	2	2
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	2	2
CALGARY	0	0	0	0	0	1	1	4	13	31	50
CHINOOK	0	0	0	0	0	0	0	0	5	2	7
DRUMHELLER	0	0	1	0	0	0	0	0	1	0	2
EDMONTON	0	0	0	0	0	0	2	3	9	23	37
FOOTHILLS	0	0	0	0	0	0	0	0	0	2	2
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	1	0	0	0	0	0	0	0	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	3	3
LETHBRIDGE	0	0	0	0	0	0	0	0	1	2	3
MINBURN-VERMILION	0	0	0	0	0	0	0	1	0	1	2
MOUNT VIEW	0	0	0	0	0	1	0	0	0	1	2
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	1	2	2	5
PEACE RIVER	0	0	0	0	0	0	0	0	0	4	4
RED DEER REGIONAL	0	0	0	0	0	0	0	2	1	3	6
SOUTHEASTERN ALBERTA	0	0	0	1	0	0	0	1	2	4	8
SOUTH PEACE	0	0	0	0	0	0	0	0	1	2	3
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	3	2	5
STURGEON	0	0	0	0	0	0	0	0	2	3	5
VEGREVILLE	0	0	0	0	0	2	0	0	0	1	3
WETOKA	0	0	0	0	0	0	0	0	3	1	4
ALBERTA	0	0	2	1	0	2	5	12	45	96	163

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1989

CHRONIC OBSTRUCTIVE LUNG DISEASE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	74	49
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	402
ATHABASCA	0	0	0	0	0	0	0	0	0	388
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	2151
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	548
CALGARY	0	0	0	0	0	2	3	16	76	243
CHINOOK	0	0	0	0	0	0	0	0	293	159
DRUMHELLER	0	0	36	0	0	0	0	0	77	0
EDMONTON	0	0	0	0	0	0	7	12	49	169
FOOTHILLS	0	0	0	0	0	0	0	0	0	232
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	55	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	245
LETHBRIDGE	0	0	0	0	0	0	0	0	37	87
MINBURN-VERMILION	0	0	0	0	0	0	0	70	0	84
MOUNT VIEW	0	0	0	0	0	20	0	0	0	97
NORTH EASTERN ALBERTA	0	0	0	0	0	0	0	69	170	216
PEACE RIVER	0	0	0	0	0	0	0	0	0	653
RED DEER REGIONAL	0	0	0	0	0	0	0	66	28	123
SOUTHEASTERN ALBERTA	0	0	0	18	0	0	0	31	67	195
SOUTH PEACE	0	0	0	0	0	0	0	0	69	182
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	234	307
STURGEON	0	0	0	0	0	0	0	0	98	187
VEGREVILLE	0	0	0	0	0	0	137	0	0	79
WETOKA	0	0	0	0	0	0	0	0	200	91
ALBERTA	0	0	1	1	0	1	4	13	64	186

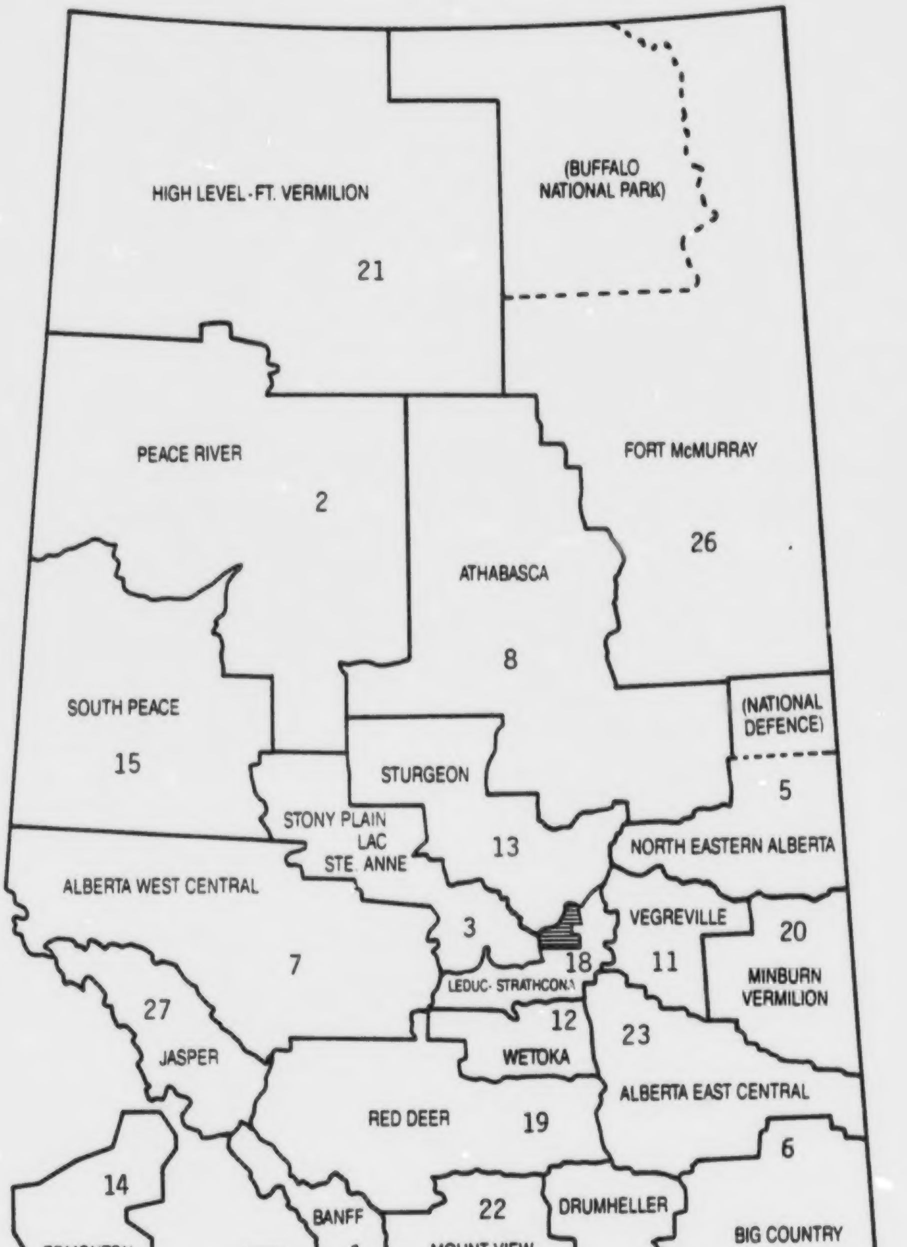
AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1989

CHRONIC OBSTRUCTIVE LUNG DISEASE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	6	-1	14	23	0.46	.
ALBERTA WEST CENTRAL	17	-7	61	7	1.31	.
ATHABASCA	17	-6	39	8	1.31	.
BANFF NATIONAL PARK	92	-35	219	1	7.08	.
BARONS-EUREKA-WARNER	0	0	0	25	0.00	.
BIG COUNTRY	23	-9	56	6	1.77	.
CALGARY	17	12	21	9	1.31	.
CHINOOK	24	6	61	4	1.85	.
DRUMHELLER	10	-4	24	16	0.77	.
EDMONTON	12	8	15	14	0.92	.
FOOTHILLS	10	-4	24	17	0.77	.
FORT MCMURRAY	0	0	0	26	0.00	.
HIGH LEVEL-FORT VERMILION	8	-8	24	21	0.62	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	10	-1	22	18	0.77	.
LETHBRIDGE	6	-1	12	24	0.46	.
MINBURN-VERMILION	9	-4	21	20	0.69	.
MOUNT VIEW	7	-3	17	22	0.56	.
NORTH EASTERN ALBERTA	24	3	65	5	1.85	.
PEACE RIVER	28	1	55	2	2.15	.
RED DEER REGIONAL	10	2	19	19	0.77	.
SOUTHEASTERN ALBERTA	17	5	29	10	1.31	.
SOUTH PEACE	12	-2	25	15	0.92	.
STONY PLAIN-LAC STE. ANNE	27	3	50	3	2.08	.
STURGEON	14	2	26	13	1.08	.
VEGREVILLE	16	-3	35	11	1.23	.
WETOKA	15	0	31	12	1.15	.
ALBERTA	13	11	16			

CHRONIC OBSTRUCTIVE LUNG DISEASE, FEMALES, 1989

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
21
(BUFFALO NATIONAL PARK)
PEACE RIVER
2
FORT McMURRAY
26
ATHABASCA
8
SOUTH PEACE
15
(NATIONAL DEFENCE)
STURGEON
13
5
STONY PLAIN LAC STE. ANNE
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
7
3
VEGREVILLE
11
20
MINBURN VERMILION
18
LEDUC- STRATHCONA
12
27
JASPER
WETOKA
23
ALBERTA EAST CENTRAL
RED DEER
19
6
14
EDMONTON
BANFF
1
22
MOUNT VIEW
DRUMHELLER
16
BIG COUNTRY
9
CALGARY
FOOTHILLS
17
SOUTHEASTERN ALBERTA
10
4
CHINOOK
BARONS EUREKA WARNER
25
24
LETHBRIDGE

Alberta
HEALTH

NUMBER OF FEMALE DEATHS, 1989

LIVER CIRRHOSIS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	1	0	1	2
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
ATHABASCA	0	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	0	2	2	7	3	2	16
CHINOOK	0	0	0	0	0	0	0	0	1	0	1
DRUMHELLER	0	0	0	0	0	0	0	0	0	0	0
EDMONTON	0	0	0	0	0	0	4	2	2	0	8
FOOTHILLS	0	0	0	0	0	0	0	1	1	0	2
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	1	1
LETHBRIDGE	0	0	0	0	0	0	0	1	0	0	1
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	0	0
MOUNT VIEW	0	0	0	0	0	0	0	1	1	0	2
NORTH EASTERN ALBERTA	0	0	0	0	0	1	0	0	0	0	1
PEACE RIVER	0	0	0	0	0	0	0	0	1	0	1
RED DEER REGIONAL	0	0	0	0	0	0	1	0	0	0	1
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	1	1	0	2	4
SOUTH PEACE	0	0	0	0	0	0	0	1	0	0	1
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	1	0	0	0	1
STURGEON	0	0	0	0	0	0	0	0	1	0	1
VEGREVILLE	0	0	0	0	0	0	0	0	0	0	0
WETOKA	0	0	0	0	0	1	0	0	0	0	1
ALBERTA	0	0	0	0	0	4	9	15	10	6	44

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1989

LIVER CIRRHOSIS

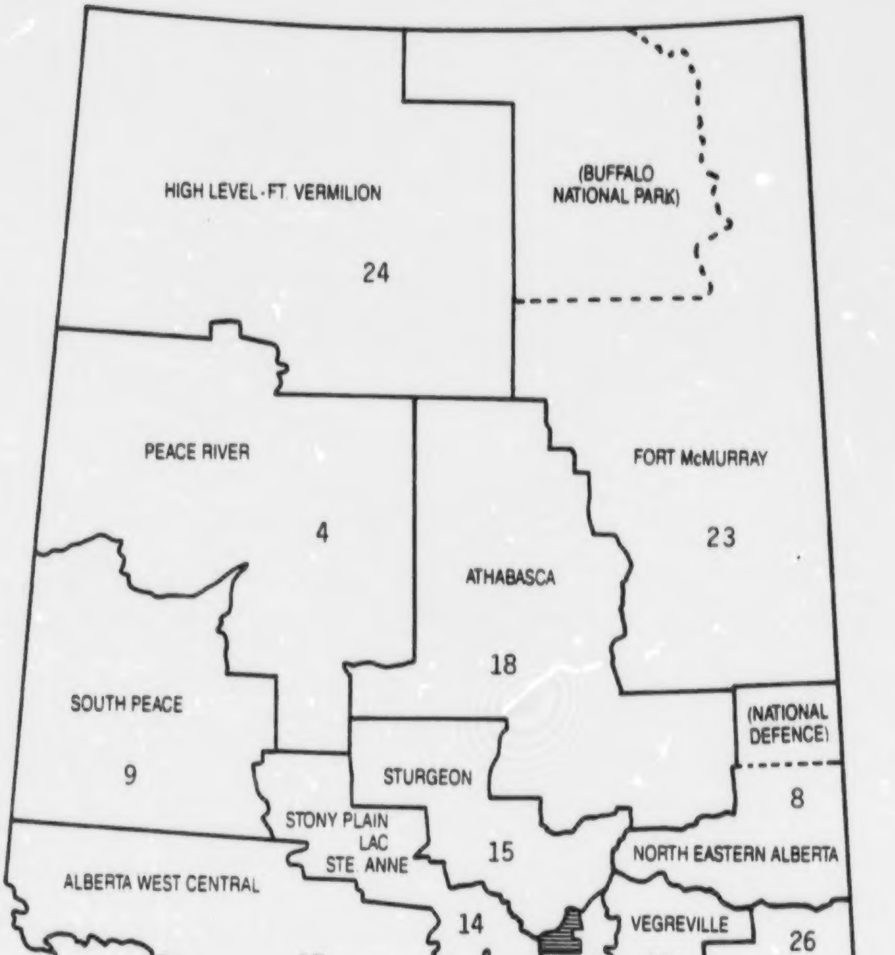
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	38	0	49
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	0
ATHABASCA	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	0	4	6	29	18	16
CHINOOK	0	0	0	0	0	0	0	0	59	0
DRUMHELLER	0	0	0	0	0	0	0	0	0	0
EDMONTON	0	0	0	0	0	0	14	8	11	0
FOOTHILLS	0	0	0	0	0	0	0	77	77	0
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	82
LETHBRIDGE	0	0	0	0	0	0	0	35	0	0
MINBURN-VERMILION	0	0	0	0	0	0	0	0	0	0
MOUNT VIEW	0	0	0	0	0	0	0	49	60	0
NORTH EASTERN ALBERTA	0	0	0	0	0	33	0	0	0	0
PEACE RIVER	0	0	0	0	0	0	0	0	112	0
RED DEER REGIONAL	0	0	0	0	0	0	18	0	0	0
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	29	31	0	97
SOUTH PEACE	0	0	0	0	0	0	0	51	0	0
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	35	0	0	0
STURGEON	0	0	0	0	0	0	0	0	49	0
VEGREVILLE	0	0	0	0	0	0	0	0	0	0
WETOKA	0	0	0	0	0	39	0	0	0	0
ALBERTA	0	0	0	0	0	2	8	17	14	12

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1989

LIVER CIRRHOSIS

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	5	-2	12	6	1.25	.
ALBERTA WEST CENTRAL	0	0	0	17	0.00	.
ATHABASCA	0	0	0	18	0.00	.
BANFF NATIONAL PARK	0	0	0	19	0.00	.
BARONS-EUREKA-WARNER	0	0	0	20	0.00	.
BIG COUNTRY	0	0	0	21	0.00	.
CALGARY	5	3	7	7	1.25	.
CHINOOK	3	-3	10	10	0.75	.
DRUMHELLER	0	0	0	22	0.00	.
EDMONTON	3	1	4	11	0.75	.
FOOTHILLS	10	-4	25	1	2.50	.
FORT MCMURRAY	0	0	0	23	0.00	.
HIGH LEVEL-FORT VERMILION	0	0	0	24	0.00	.
JASPER NATIONAL PARK	0	0	0	25	0.00	.
LEDUC-STRATHCONA	3	-3	10	12	0.75	.
LETHBRIDGE	3	-2	8	13	0.75	.
MINBURN-VERMILION	0	0	0	26	0.00	.
MOUNT VIEW	7	-3	17	3	1.75	.
NORTH EASTERN ALBERTA	5	-5	15	8	1.25	.
PEACE RIVER	6	-6	19	4	1.50	.
RED DEER REGIONAL	2	-2	5	16	0.50	.
SOUTHEASTERN ALBERTA	9	0	18	2	2.25	.
SOUTH PEACE	4	-4	11	9	1.00	.
STONY PLAIN-LAC STE. ANNE	3	-3	10	14	0.75	.
STURGEON	3	-3	8	15	0.75	.
VEGREVILLE	0	0	0	27	0.00	.
WETOKA	6	-6	17	5	1.50	.
ALBERTA	4	3	5			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
24
(BUFFALO NATIONAL PARK)
PEACE RIVER
4
FORT McMURRAY
23
ATHABASCA
18
SOUTH PEACE
9
(NATIONAL DEFENCE)
STURGEON
8
STONY PLAIN LAC STE. ANNE
15
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
14
VEGREVILLE
26
17
12
27
25
LEDUC - STRATHCONA
MINBURN VERMILION
5
JASPER
WETOKA
6
ALBERTA EAST CENTRAL
RED DEER
16
11
21
3
DRUMHELLER
EDMONTON
BANFF
19
MOUNT VIEW
22
BIG COUNTRY
7
CALGARY
FOOTHILLS
SOUTHEASTERN ALBERTA
1
10
BARONS EUREKA WARNER
13
CHINOOK
2
LETHBRIDGE
20

Alberta
HEALTH

LIVER CIRRHOSIS, FEMALES, 1989

4.42

NUMBER OF FEMALE DEATHS, 1989

CONGENITAL ANOMALY

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	2	0	0	0	0	0	0	0	0	0	2
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	0	0
ATHABASCA	0	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	1	0	0	0	0	0	0	0	0	1
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	9	0	0	0	1	1	0	0	0	2	13
CHINOOK	4	0	0	0	0	0	0	0	0	0	4
DRUMHELLER	0	0	0	0	0	0	0	0	0	0	0
EDMONTON	10	2	0	0	0	2	0	2	0	0	16
FOOTHILLS	0	0	0	0	0	0	0	0	0	0	0
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	0	0
LETHBRIDGE	2	0	0	0	0	0	0	0	0	0	2
MINBURN-VERMILION	1	0	0	0	0	0	0	0	0	0	1
MOUNT VIEW	2	0	0	0	0	0	0	0	1	0	3
NORTH EASTERN ALBERTA	2	0	0	0	0	0	0	0	0	0	2
PEACE RIVER	0	0	0	0	1	0	0	0	0	0	1
RED DEER REGIONAL	5	1	0	0	0	0	0	0	0	0	6
SOUTHEASTERN ALBERTA	2	0	1	0	0	0	0	0	0	1	4
SOUTH PEACE	2	0	0	0	0	0	0	1	0	0	3
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	0	0
STURGEON	0	2	0	0	0	0	0	0	0	0	2
VEGREVILLE	0	1	0	0	0	0	0	0	0	0	1
WETOKA	1	0	0	0	0	0	0	0	0	0	1
ALBERTA	42	7	1	0	2	3	0	3	1	3	62

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1989

CONCONGENITAL ANOMALY

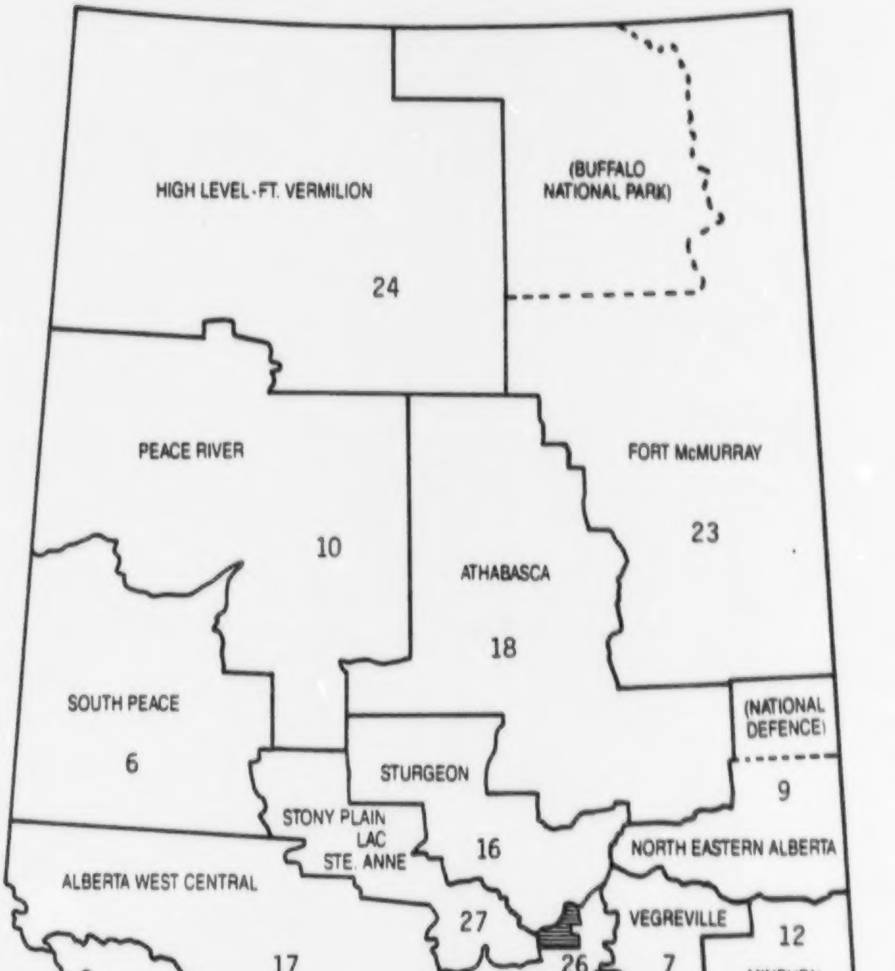
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	500	0	0	0	0	0	0	0	0	0
ALBERTA WEST CENTRAL	0	0	0	0	0	0	0	0	0	0
ATHABASCA	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	66	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	165	0	0	0	1	2	0	0	0	16
CHINOOK	1072	0	0	0	0	0	0	0	0	0
DRUMHELLER	0	0	0	0	0	0	0	0	0	0
EDMONTON	199	11	0	0	0	5	0	0	0	0
FOOTHILLS	0	0	0	0	0	0	0	0	0	0
FORT MCMURRAY	0	0	0	0	0	0	0	0	0	0
HIGH LEVEL-FORT VERMILION	0	0	0	0	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	0	0	0	0	0
LETHBRIDGE	451	0	0	0	0	0	0	0	0	0
MINBURN-VERMILION	292	0	0	0	0	0	0	0	0	0
MOUNT VIEW	400	0	0	0	0	0	0	0	60	0
NORTH EASTERN ALBERTA	426	0	0	0	0	0	0	0	0	0
PEACE RIVER	0	0	0	0	32	0	0	0	0	0
RED DEER REGIONAL	452	24	0	0	0	0	0	0	0	0
SOUTHEASTERN ALBERTA	334	0	17	0	0	0	0	0	0	49
SOUTH PEACE	318	0	0	0	0	0	0	51	0	0
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	0	0	0	0	0
STURGEON	0	61	0	0	0	0	0	0	0	0
VEGREVILLE	0	130	0	0	0	0	0	0	0	0
WETOKA	312	0	0	0	0	0	0	0	0	0
ALBERTA	202	9	1	0	1	2	0	3	1	6

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1989

CONGENITAL ANOMALY

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	9	-3	20	4	1.8	.
ALBERTA WEST CENTRAL	0	0	0	17	0.0	.
ATHABASCA	0	0	0	18	0.0	.
BANFF NATIONAL PARK	0	0	0	19	0.0	.
BARONS-EUREKA-WARNER	4	-4	13	14	0.8	.
BIG COUNTRY	0	0	0	20	0.0	.
CALGARY	4	2	6	15	0.8	.
CHINOOK	18	0	36	1	3.6	.
DRUMHELLER	0	0	0	21	0.0	.
EDMONTON	5	3	8	11	1.0	.
FOOTHILLS	0	0	0	22	0.0	.
FORT MCMURRAY	0	0	0	23	0.0	.
HIGH LEVEL- FORT VERMILION	0	0	0	24	0.0	.
JASPER NATIONAL PARK	0	0	0	25	0.0	.
LEDUC-STRATHCONA	0	0	0	26	0.0	.
LETHBRIDGE	8	-3	18	8	1.6	.
MINBURN-VERMILION	5	-5	15	12	1.0	.
MOUNT VIEW	10	-1	22	2	2.0	.
NORTH EASTERN ALBERTA	7	-3	17	9	1.4	.
PEACE RIVER	6	-6	18	10	1.2	.
RED DEER REGIONAL	9	2	17	5	1.8	.
SOUTHEASTERN ALBERTA	10	0	20	3	2.0	.
SOUTH PEACE	9	-1	20	6	1.8	.
STONY PLAIN-LAC STE. ANNE	0	0	0	27	0.0	.
STURGEON	4	-2	10	16	0.8	.
VEGREVILLE	9	-8	25	7	1.8	.
WETOKA	5	-5	16	13	1.0	.
ALBERTA	5	4	6			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
24
(BUFFALO NATIONAL PARK)
PEACE RIVER
10
FORT McMURRAY
23
ATHABASCA
18
SOUTH PEACE
6
(NATIONAL DEFENCE)
STURGEON
9
STONY PLAIN LAC STE. ANNE
16
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
27
VEGREVILLE
12
17
26
7
MINBURN VERMILION
25
LEDUC - STRATHCONA
13
JASPER
WETOKA
4
ALBERTA EAST CENTRAL
RED DEER
5
20
11
2
DRUMHELLER
BANFF
MOUNT VIEW
BIG COUNTRY
EDMONTON
19
21
15
CALGARY
FOOTHILLS
SOUTHEASTERN ALBERTA
22
BARONS EUREKA WARNER
1
3
8
CHINOOK
14
LETHBRIDGE

Alberta
HEALTH

NUMBER OF FEMALE DEATHS, 1989

MOTOR VEHICLE ACCIDENTS

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	3	1	0	3	0	1	0	0	8
ALBERTA WEST CENTRAL	0	0	1	0	2	0	0	0	0	0	3
ATHABASCA	0	0	1	3	1	0	2	0	0	0	6
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	1	0	0	1	0	1	0	0	0	0	3
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	1	3	3	3	0	3	3	4	2	22
CHINOOK	0	0	1	0	0	2	1	0	1	0	5
DRUMHELLER	0	0	0	2	0	0	0	1	1	0	4
EDMONTON	0	1	0	5	5	1	1	3	2	3	21
FOOTHILLS	0	0	0	1	0	0	0	0	0	0	1
FORT MCMURRAY	0	0	0	1	0	0	0	0	0	0	1
HIGH LEVEL- FORT VERMILION	0	0	0	1	0	0	0	0	0	0	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	1	1	1	0	1	0	1	2	7
LETHBRIDGE	0	0	0	1	0	2	0	1	1	0	5
MINBURN-VERMILION	0	0	0	1	0	0	0	2	0	0	3
MOUNT VIEW	0	0	0	0	0	1	0	0	0	0	1
NORTH EASTERN ALBERTA	0	0	1	0	0	1	1	0	1	1	5
PEACE RIVER	0	0	1	3	0	0	1	0	1	1	7
RED DEER REGIONAL	0	0	0	2	0	0	1	0	0	1	4
SOUTHEASTERN ALBERTA	0	0	2	1	0	1	0	0	0	1	5
SOUTH PEACE	0	0	0	1	0	1	1	1	0	0	4
STONY PLAIN-LAC STE. ANNE	0	0	0	2	1	3	1	0	0	0	7
STURGEON	0	0	1	4	1	2	2	1	0	1	12
VEGREVILLE	0	0	0	1	1	1	1	0	2	0	6
WETOKA	0	0	0	1	0	0	0	1	0	1	3
ALBERTA	1	2	14	36	15	19	16	14	14	13	144

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1989

MOTOR VEHICLE ACCIDENTS

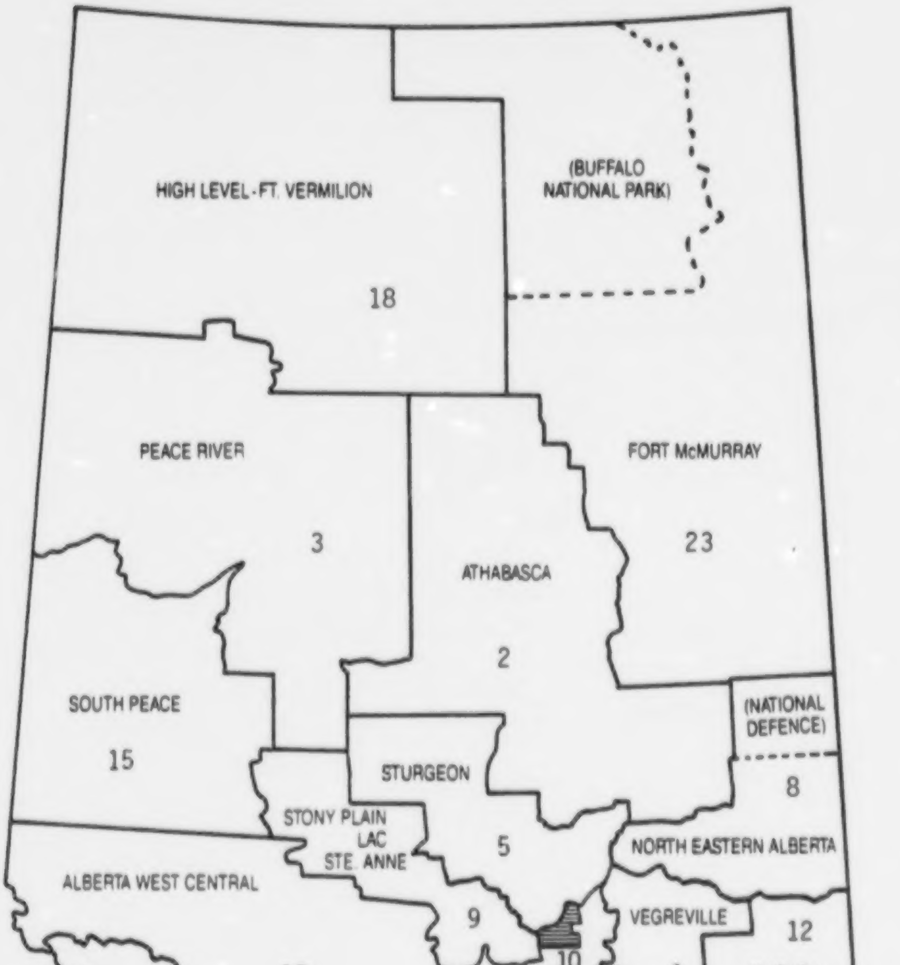
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	70	28	0	82	0	38	0	0
ALBERTA WEST CENTRAL	0	0	30	0	54	0	0	0	0	0
ATHABASCA	0	0	0	120	41	0	149	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	282	0	0	35	0	38	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	5	7	6	4	0	10	12	23	16
CHINOOK	0	0	28	0	0	77	55	0	59	0
DRUMHELLER	0	0	0	86	0	0	0	76	77	0
EDMONTON	0	6	0	10	8	2	3	12	11	22
FOOTHILLS	0	0	0	50	0	0	0	0	0	0
FORT MCMURRAY	0	0	0	32	0	0	0	0	0	0
HIGH LEVEL- FORT VERMILION	0	0	0	75	0	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	10	14	11	0	20	0	52	164
LETHBRIDGE	0	0	0	22	0	46	0	35	37	0
MINBURN-VERMILION	0	0	0	35	0	0	0	139	0	0
MOUNT VIEW	0	0	0	0	0	20	0	0	0	0
NORTH EASTERN ALBERTA	0	0	24	0	0	33	52	0	85	108
PEACE RIVER	0	0	29	105	0	0	59	0	112	163
RED DEER REGIONAL	0	0	0	21	0	0	18	0	0	41
SOUTHEASTERN ALBERTA	0	0	34	18	0	19	0	0	0	49
SOUTH PEACE	0	0	0	19	0	22	38	51	0	0
STONY PLAIN-LAC STE. ANNE	0	0		47	16	54	35	0	0	0
STURGEON	0	0	12	61	12	24	44	34	0	62
VEGREVILLE	0	0	0	58	51	51	68	0	130	
WETOKA	0	0	0	40	0	0	0	57	0	91
ALBERTA	5	3	8	19	6	10	14	15	20	25

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1989

MOTOR VEHICLE ACCIDENTS

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	30	9	51	4	2.50	YES
ALBERTA WEST CENTRAL	15	-2	32	13	1.25	.
ATHABASCA	40	8	73	2	3.33	YES
BANFF NATIONAL PARK	0	0	0	25	0.00	.
BARONS-EUREKA-WARNER	16	-2	34	11	1.33	.
BIG COUNTRY	0	0	0	26	0.00	.
CALGARY	7	4	10	20	0.58	.
CHINOOK	24	3	46	6	2.00	.
DRUMHELLER	23	0	46	7	1.92	.
EDMONTON	7	4	10	21	0.58	.
FOOTHILLS	8	7	23	19	0.67	.
FORT MCMURRAY	5	5	14	23	0.42	.
HIGH LEVEL- FORT VERMILION	12	-11	34	18	1.00	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	18	4	31	10	1.50	.
LETHBRIDGE	15	2	28	14	1.25	.
MINBURN-VERMILION	16	-2	34	12	1.33	.
MOUNT VIEW	3	-3	9	24	0.25	.
NORTH EASTERN ALBERTA	23	3	43	8	1.92	.
PEACE RIVER	39	10	69	3	3.25	YES
RED DEER REGIONAL	7	0	13	22	0.58	.
SOUTHEASTERN ALBERTA	13	1	24	17	1.08	.
SOUTH PEACE	14	0	27	15	1.17	.
STONY PLAIN-LAC STE. ANNE	22	6	38	9	1.83	.
STURGEON	26	11	41	5	2.17	YES
VEGREVILLE	41	6	75	1	3.42	.
WETOKA	14	-2	31	16	1.17	.
ALBERTA	12	10	14			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
18
(BUFFALO NATIONAL PARK)
PEACE RIVER
3
FORT McMURRAY
23
ATHABASCA
2
SOUTH PEACE
15
(NATIONAL DEFENCE)
STURGEON
8
STONY PLAIN LAC STE. ANNE
5
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
9
VEGREVILLE
12
10
27
13
LEDUC- STRATHCONA
1
MINBURN VERMILION
16
4
JASPER
WETOKA
ALBERTA EAST CENTRAL
RED DEER
22
21
26
24
DRUMHELLER
BANFF
BIG COUNTRY
EDMONTON
MOUNT VIEW
25
20
7
CALGARY
FOOTHILLS
SOUTHEASTERN ALBERTA
19
6
BARONS EUREKA WARNER
17
14
CHINOOK
LETHBRIDGE
11

Alberta
HEALTH

4.50

MOTOR VEHICLE ACCIDENTS, FEMALES, 1989

NUMBER OF FEMALE DEATHS, 1989

SUICIDE

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	1	1
ALBERTA WEST CENTRAL	0	0	0	0	0	1	0	0	0	0	1
ATHABASCA	0	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	2	6	0	4	3	0	0	15
CHINOOK	0	0	0	0	0	0	0	0	0	0	0
DRUMHELLER	0	0	0	0	0	0	0	0	1	0	1
EDMONTON	0	0	0	1	15	7	5	2	2	0	32
FOOTHILLS	0	0	0	0	0	1	0	0	0	0	1
FORT MCMURRAY	0	0	0	1	0	0	0	0	0	0	1
HIGH LEVEL- FORT VERMILION	0	0	0	0	1	0	0	0	0	0	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	1	1	0	0	1	0	0	0	3
LETHBRIDGE	0	0	0	0	1	0	0	0	0	0	1
MINBURN-VERMILION	0	0	0	0	0	2	0	0	0	0	2
MOUNT VIEW	0	0	0	0	0	1	0	0	0	0	1
NORTH EASTERN ALBERTA	0	0	0	0	1	0	0	0	0	0	1
PEACE RIVER	0	0	0	0	0	0	0	0	0	0	0
RED DEER REGIONAL	0	0	0	1	0	2	1	2	0	0	6
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	1	1	1	0	3
SOUTH PEACE	0	0	0	0	0	0	1	0	0	0	1
STONY PLAIN-LAC STE. ANNE	0	0	0	1	0	0	0	0	0	0	1
STURGEON	0	0	0	0	0	1	0	1	0	0	2
VEGREVILLE	0	0	0	0	1	1	0	0	0	0	2
WETOKA	0	0	0	1	0	0	0	0	1	0	2
ALBERTA	0	0	1	8	25	16	13	9	5	1	78

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1989

SUICIDE

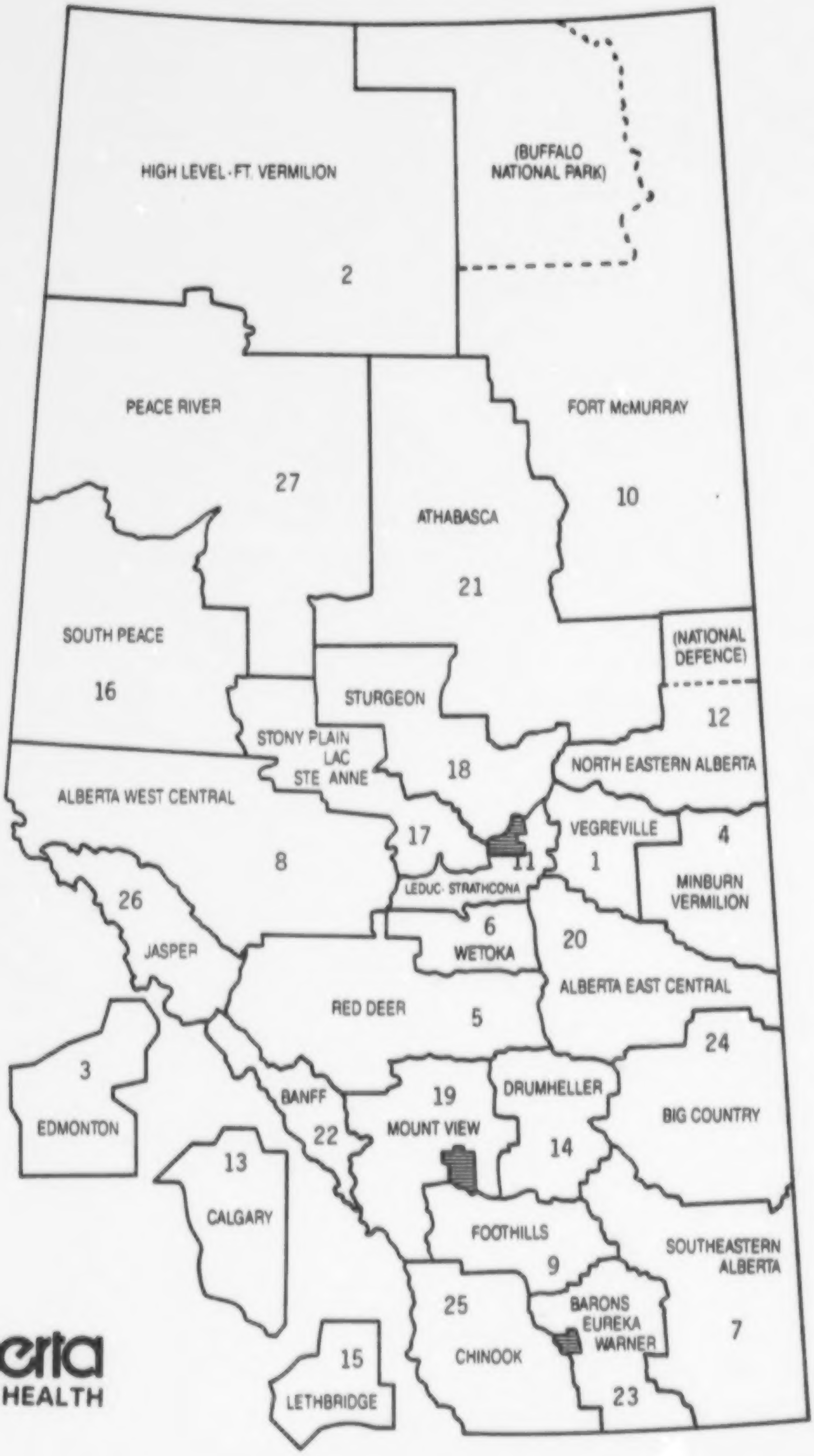
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	0	0	0	0	49
ALBERTA WEST CENTRAL	0	0	0	0	0	37	0	0	0	0
ATHABASCA	0	0	0	0	0	0	0	0	0	0
BANFF NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
BARONS-EUREKA-WARNER	0	0	0	0	0	0	0	0	0	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	4	8	0	13	12	0	0
CHINOOK	0	0	0	0	0	0	0	0	0	0
DRUMHELLER	0	0	0	0	0	0	0	0	77	0
EDMONTON	0	0	0	2	24	17	17	8	11	0
FOOTHILLS	0	0	0	0	0	36	0	0	0	0
FORT MCMURRAY	0	0	0	32	0	0	0	0	0	0
HIGH LEVEL- FORT VERMILION	0	0	0	0	88	0	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	10	14	0	0	20	0	0	0
LETHBRIDGE	0	0	0	0	18	0	0	0	0	0
MINBURN-VERMILION	0	0	0	0	0	76	0	0	0	0
MOUNT VIEW	0	0	0	0	0	20	0	0	0	0
NORTH EASTERN ALBERTA	0	0	0	0	25	0	0	0	0	0
PEACE RIVER	0	0	0	0	0	0	0	0	0	0
RED DEER REGIONAL	0	0	0	11	0	23	18	46	0	0
SOUTHEASTERN ALBERTA	0	0	0	0	0	0	29	31	33	0
SOUTH PEACE	0	0	0	0	0	0	38	0	0	0
STONY PLAIN-LAC STE. ANNE	0	0	0	23	0	0	0	0	0	0
STURGEON	0	0	0	0	0	12	0	34	0	0
VEGREVILLE	0	0	0	0	51	51	0	0	0	0
WETOKA	0	0	0	40	0	0	0	0	67	0
ALBERTA	0	0	1	4	11	9	11	10	7	2

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1989

SUICIDE

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	2	-2	6	20	0.33	.
ALBERTA WEST CENTRAL	6	-5	16	8	1.00	.
ATHABASCA	0	0	0	21	0.00	.
BANFF NATIONAL PARK	0	0	0	22	0.00	.
BARONS-EUREKA-WARNER	0	0	0	23	0.00	.
BIG COUNTRY	0	0	0	24	0.00	.
CALGARY	4	2	7	13	0.67	.
CHINOOK	0	0	0	25	0.00	.
DRUMHELLER	4	-4	13	14	0.67	.
EDMONTON	11	7	14	3	1.83	YES
FOOTHILLS	5	5	16	9	0.83	.
FORT MCMURRAY	5	-5	14	10	0.83	.
HIGH LEVEL- FORT VERMILION	17	-17	51	2	2.83	.
JASPER NATIONAL PARK	0	0	0	26	0.00	.
LEDUC-STRATHCONA	5	1	12	11	0.83	.
LETHBRIDGE	4	-3	11	15	0.67	.
MINBURN-VERMILION	11	4	27	4	1.83	.
MOUNT VIEW	3	-3	9	19	0.50	.
NORTH EASTERN ALBERTA	5	5	15	12	0.83	.
PEACE RIVER	0	0	0	27	0.00	.
RED DEER REGIONAL	10	2	19	5	1.67	.
SOUTHEASTERN ALBERTA	7	-1	15	7	1.17	.
SOUTH PEACE	4	-3	10	16	0.67	.
STONY PLAIN-LAC STE. ANNE	4	-3	11	17	0.67	.
STURGEON	4	-2	10	18	0.67	.
VEGREVILLE	18	-7	43	1	3.00	.
WETOKA	10	-4	24	6	1.67	.
ALBERTA	6	5	8			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT. VERMILION
2
(BUFFALO NATIONAL PARK)
PEACE RIVER
27
FORT McMURRAY
10
ATHABASCA
21
SOUTH PEACE
16
(NATIONAL DEFENCE)
12
STURGEON
STONY PLAIN LAC STE ANNE
18
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
8
17
11
VEGREVILLE
1
4
MINBURN VERMILION
LEDUC - STRATHCONA
26
JASPER
6
WETOKA
20
ALBERTA EAST CENTRAL
RED DEER
5
3
EDMONTON
24
BIG COUNTRY
BANFF
22
19
MOUNT VIEW
DRUMHELLER
14
13
CALGARY
FOOTHILLS
9
SOUTHEASTERN ALBERTA
25
CHINOOK
BARONS EUREKA WARNER
7
23
15
LETHBRIDGE

Alberta
HEALTH

4.54

SUICIDE, FEMALES, 1989

NUMBER OF FEMALE DEATHS, 1989

BREAST CANCER

HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	TOTAL
ALBERTA EAST CENTRAL	0	0	0	0	0	1	0	3	4	5	13
ALBERTA WEST CENTRAL	0	0	0	0	0	2	1	1	1	2	7
ATHABASCA	0	0	0	0	0	0	0	1	1	1	3
BANFF NATIONAL PARK	0	0	0	0	0	0	0	1	0	0	1
BARONS-EUREKA-WARNER	0	0	0	0	0	2	4	0	1	0	7
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	3	7	15	29	30	24	108
CHINOOK	0	0	0	0	2	3	0	3	0	0	8
DRUMHELLER	0	0	0	0	0	0	0	1	4	0	5
EDMONTON	0	0	0	0	1	9	11	20	22	22	85
FOOTHILLS	0	0	0	0	0	0	0	1	1	4	6
FORT MCMURRAY	0	0	0	0	0	1	1	0	1	0	3
HIGH LEVEL- FORT VERMILION	0	0	0	0	0	1	0	0	0	0	1
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	2	1	3	4	3	13
LETHBRIDGE	0	0	0	0	1	0	3	3	0	4	11
MINBURN-VERMILION	0	0	0	0	1	1	1	0	3	0	6
MOUNT VIEW	0	0	0	0	0	0	2	2	3	4	11
NORTH EASTERN ALBERTA	0	0	0	0	0	0	1	2	2	1	6
PEACE RIVER	0	0	0	0	0	1	4	1	1	2	9
RED DEER REGIONAL	0	0	0	0	2	1	2	2	3	2	12
SOUTHEASTERN ALBERTA	0	0	0	0	0	1	0	3	3	2	9
SOUTH PEACE	0	0	0	0	0	0	1	1	1	1	4
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	2	3	1	2	2	10
STURGEON	0	0	0	0	1	1	2	4	1	1	10
VEGREVILLE	0	0	0	0	0	1	1	1	5	1	9
WETOKA	0	0	0	0	0	0	1	1	1	3	6
ALBERTA	0	0	0	0	11	36	54	84	94	84	363

AGE-SPECIFIC DEATH RATES (PER 100,000 FEMALES), 1989

BREAST CANCER

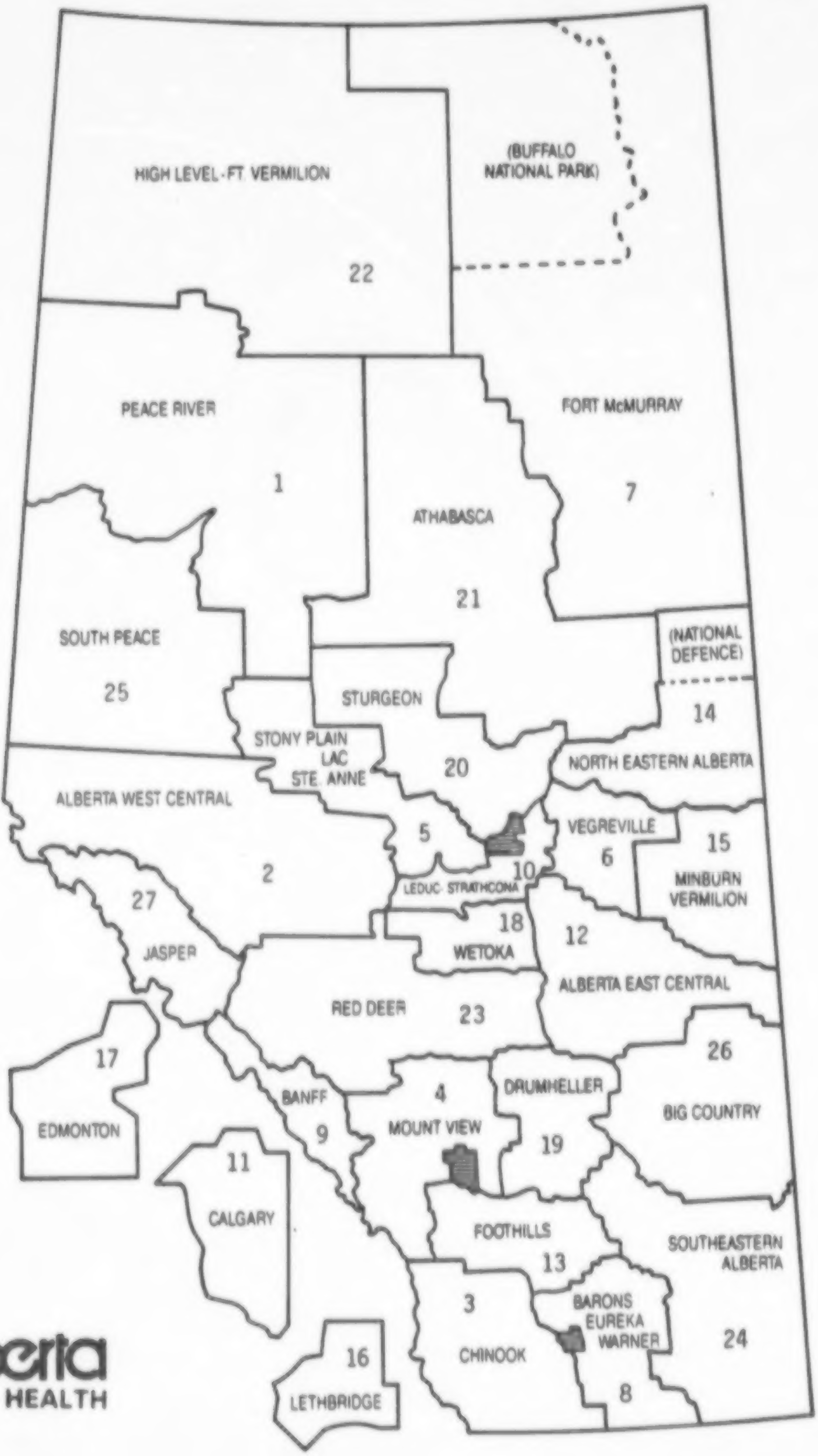
HEALTH UNIT	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+
ALBERTA EAST CENTRAL	0	0	0	0	0	27	0	115	148	243
ALBERTA WEST CENTRAL	0	0	0	0	0	73	55	95	133	402
ATHABASCA	0	0	0	0	0	0	0	99	128	194
BANFF NATIONAL PARK	0	0	0	0	0	0	0	481	0	0
BARONS-EURECA-WARNER	0	0	0	0	0	76	222	0	78	0
BIG COUNTRY	0	0	0	0	0	0	0	0	0	0
CALGARY	0	0	0	0	4	13	48	119	176	188
CHINOOK	0	0	0	0	68	116	0	168	0	0
DRUMHELLER	0	0	0	0	0	0	0	76	308	0
EDMONTON	0	0	0	0	2	22	38	82	121	162
FOOTHILLS	0	0	0	0	0	0	0	77	77	463
FORT MCMURRAY	0	0	0	0	0	32	93	0	446	0.
HIGH LEVEL- FORT VERMILION	0	0	0	0	0	144	0	0	0	0
JASPER NATIONAL PARK	0	0	0	0	0	0	0	0	0	0
LEDUC-STRATHCONA	0	0	0	0	0	19	20	104	209	245
LETHBRIDGE	0	0	0	0	18	0	103	104	0	174
MINBURN-VERMILION	0	0	0	0	30	38	62	0	205	0
MOUNT VIEW	0	0	0	0	0	0	69	97	181	387
NORTH EASTERN ALBERTA	0	0	0	0	0	0	52	137	170	108
PEACE RIVER	0	0	0	0	0	40	234	82	112	326
RED DEER REGIONAL	0	0	0	0	17	12	37	46	84	82
SOUTHEASTERN ALBERTA	0	0	0	0	0	19	0	92	100	97
SOUTH PEACE	0	0	0	0	0	0	38	51	69	91
STONY PLAIN-LAC STE. ANNE	0	0	0	0	0	36	106	53	156	307
STURGEON	0	0	0	0	12	12	44	137	49	62
VEGREVILLE	0	0	0	0	0	51	68	67	325	79
WETOKA	0	0	0	0	0	0	53	57	67	274
ALBERTA	0	0	0	0	5	20	48	93	134	163

AGE-STANDARDIZED DEATH RATES (PER 100,000 FEMALES), 1989

BREAST CANCER

HEALTH UNIT	RATE	LOWER	UPPER	RANK	RATIO	SIG
ALBERTA EAST CENTRAL	32	14	49	12	1.07	.
ALBERTA WEST CENTRAL	48	12	84	2	1.60	.
ATHABASCA	23	-3	49	21	0.77	.
BANFF NATIONAL PARK	36	-34	106	9	1.20	.
BARONS-EUREKA-WARNER	37	9	64	8	1.23	.
BIG COUNTRY	0	0	0	26	0.00	.
CALGARY	34	28	41	11	1.13	.
CHINOOK	43	13	74	3	1.43	.
DRUMHELLER	24	3	44	19	0.80	.
EDMONTON	27	21	33	17	0.90	.
FOOTHILLS	30	6	54	13	1.00	.
FORT MCMURRAY	39	-15	94	7	1.30	.
HIGH LEVEL- FORT VERMILION	22	-21	64	22	0.73	.
JASPER NATIONAL PARK	0	0	0	27	0.00	.
LEDUC-STRATHCONA	35	15	55	10	1.17	.
LETHBRIDGE	28	11	46	16	0.93	.
MINBURN-VERMILION	29	5	53	15	0.97	.
MOUNT VIEW	41	17	65	4	1.37	.
NORTH EASTERN ALBERTA	30	6	53	14	1.00	.
PEACE RIVER	54	19	90	1	1.80	.
RED DEER REGIONAL	20	9	32	23	0.67	.
SOUTHEASTERN ALBERTA	20	7	33	24	0.67	.
SOUTH PEACE	15	0	30	25	0.50	.
STONY PLAIN-LAC STE. ANNE	41	14	68	5	1.37	.
STURGEON	24	9	39	20	0.80	.
VEGREVILLE	41	13	70	6	1.37	.
WETOKA	25	5	45	18	0.83	.
ALBERTA	30	27	33			

HEALTH UNITS OF ALBERTA


HIGH LEVEL - FT VERMILION
22
(BUFFALO NATIONAL PARK)
PEACE RIVER
1
FORT McMURRAY
7
ATHABASCA
21
SOUTH PEACE
25
(NATIONAL DEFENCE)
STURGEON
14
STONY PLAIN LAC STE. ANNE
20
NORTH EASTERN ALBERTA
ALBERTA WEST CENTRAL
VEGREVILLE
5
6
15
2
10
LEDUC - STRATHCONA
MINBURN VERMILION
27
18
12
JASPER
WETOKA
ALBERTA EAST CENTRAL
RED DEER
23
17
26
BANFF
4
DRUMHELLER
MOUNT VIEW
BIG COUNTRY
EDMONTON
9
19
11
CALGARY
FOOTHILLS
SOUTHEASTERN ALBERTA
13
3
BARONS EUREKA WARNER
24
CHINOOK
16
8
LETHBRIDGE

Alberta
HEALTH

4.59

POTENTIAL YEARS OF LIFE LOST FROM SELECTED CAUSES

FEMALE, 1989

REGION / HEALTH UNIT		ALL CAUSES		ISCHEMIC HEART DISEASE		MOTOR VEHICLE ACCIDENTS		CEREBRO-VASCULAR DISEASE		LUNG CANCER		CHRONIC OBSTRUCTIVE LUNG DISEASE		BREAST CANCER		COLON CANCER		SUICIDE		ALL OTHER CAUSES	
*		NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
N	ATHABASCA	851	100	21	2.5	290	34.1	1	0.1	21	2.5	0	0.0	11	1.3	10	1.2	0	0.0	496	58.3
N	FORT MCMURRAY	660	100	91	13.8	50	7.6	0	0.0	50	7.6	0	0.0	51	7.8	0	0.0	50	7.6	367	55.7
N	HIGH LEVEL-FORT VERMILION	488	100	1	0.3	50	10.2	1	0.3	0	0.0	60	12.3	30	6.1	0	0.0	40	8.2	306	62.6
N	PEACE RIVER	711	100	1	0.2	231	32.5	11	1.6	31	4.4	0	0.0	121	17.1	0	0.0	0	0.0	315	44.2
N	SOUTH PEACE	766	100	18	2.3	110	14.4	20	2.6	50	6.5	1	0.2	31	4.1	1	0.2	20	2.6	514	67.2
	NORTH REGION SUM:	3475	100	133	3.8	731	21.0	34	1.0	153	4.4	61	1.8	245	7.1	11	0.3	110	3.2	1997	57.5
NC	ALBERTA WEST CENTRAL	1024	100	45	4.4	140	13.7	54	5.3	63	6.1	0	0.0	91	8.9	40	3.9	30	2.9	561	54.8
NC	JASPER NATIONAL PARK	10	100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	100.0
NC	LEDUC-STRATHCONA	1642	100	45	2.7	171	10.4	73	4.4	74	4.5	0	0.0	115	7.0	21	1.3	130	7.9	1013	61.7
NC	MINBURN-VERMILION	536	100	96	18.0	70	13.1	0	0.0	30	5.6	10	1.9	94	17.5	0	0.0	60	11.2	176	32.8
NC	NORTH EASTERN ALBERTA	888	100	10	1.1	111	12.5	0	0.0	3	0.3	13	1.4	43	4.8	20	2.3	40	4.5	650	73.1
NC	STONY PLAIN-LAC STE. ANNE	1071	100	54	5.0	250	23.3	60	5.6	58	5.4	4	0.4	133	12.4	1	0.1	50	4.7	462	43.2
NC	STURGEON	1590	100	24	1.5	410	25.8	1	0.1	33	2.0	3	0.2	151	9.5	13	0.8	40	2.5	917	57.6
NC	VEGREVILLE	553	100	56	10.2	143	25.8	10	1.8	0	0.0	60	10.8	66	12.0	0	0.0	70	12.7	148	26.8
	NORTH CENTRAL SUM:	7314	100	330	4.5	1295	17.7	198	2.7	259	3.5	89	1.2	693	9.5	95	1.3	420	5.7	3936	53.8
EDMONTON BOARD OF HEALTH		11173	100	525	4.7	600	5.4	414	3.7	338	3.0	81	0.7	758	6.8	144	1.3	983	8.8	7332	65.6
CALGARY BOARD OF HEALTH		8795	100	371	4.2	612	7.0	321	3.7	558	6.3	106	1.2	958	10.9	133	1.5	450	5.1	5286	60.1
SC	ALBERTA EAST CENTRAL	986	100	34	3.4	330	33.5	0	0.0	24	2.4	3	0.3	65	6.6	29	2.9	0	0.0	502	50.9
SC	BANFF NATIONAL PARK	51	100	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	19.5	0	0.0	0	0.0	41	80.5
SC	BIG COUNTRY	100	100	3	2.5	0	0.0	13	12.5	1	1.3	0	0.0	0	0.0	10	10.0	0	0.0	74	73.8
SC	DRUMHELLER	504	100	71	14.1	111	22.1	13	2.5	1	0.2	61	12.2	15	3.0	20	4.0	1	0.2	210	41.7
SC	MOUNT VIEW	1104	100	29	2.6	30	2.7	1	0.1	31	2.8	30	2.7	64	5.8	23	2.0	30	2.7	866	78.5
SC	RED DEER REGIONAL	2412	100	90	3.7	120	5.0	49	2.0	178	7.4	21	0.9	174	7.2	21	0.9	150	6.2	1610	66.7
SC	WETOKA	316	100	20	6.3	60	19.0	0	0.0	40	12.6	4	1.2	31	9.9	0	0.0	51	16.2	110	34.8
	SOUTH CENTRAL SUM:	5473	100	246	4.5	651	11.9	75	1.4	275	5.0	119	2.2	359	6.6	103	1.9	233	4.2	3413	62.4
S	BARONS-EUREKA-WARNER	779	100	15	1.9	150	19.2	20	2.6	93	11.9	0	0.0	141	18.1	0	0.0	0	0.0	360	46.3
S	CHINOOK	1173	100	33	2.8	141	12.0	23	1.9	3	0.2	6	0.5	200	17.0	0	0.0	0	0.0	768	65.5
S	FOOTHILLS	489	100	13	2.6	50	10.2	31	6.4	64	13.1	0	0.0	11	2.3	30	6.1	30	6.1	260	53.2
S	LETHBRIDGE	1061	100	53	5.0	121	11.4	5	0.5	14	1.3	1	0.1	130	12.3	1	0.1	40	3.8	696	65.6
S	SOUTHEASTERN ALBERTA	1103	100	26	2.4	200	18.1	35	3.2	44	4.0	63	5.7	64	5.8	6	0.6	31	2.8	634	57.5
	SOUTH REGION SUM:	4604	100	139	3.0	662	14.4	114	2.5	216	4.7	70	1.5	546	11.9	38	0.8	101	2.2	2718	59.0
	HEALTH UNIT TOTAL	41041	100	1744	4.2	4491	10.9	1186	2.9	1798	4.4	506	1.2	3558	8.7	523	1.3	2296	5.6	24940	60.8

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* N = NORTH REGION, NC = NORTH CENTRAL REGION, SC = SOUTH CENTRAL REGION, and S = SOUTH REGION

NOTE: Totals may not add-up due to rounding

CHART 4.60

POTENTIAL YEARS OF LIFE LOST (PYLL) BY REGION, FEMALE, 1989

Percentage Distribution by Selected Preventable Causes

North, North Central, Edmonton, Calgary, South Central, South

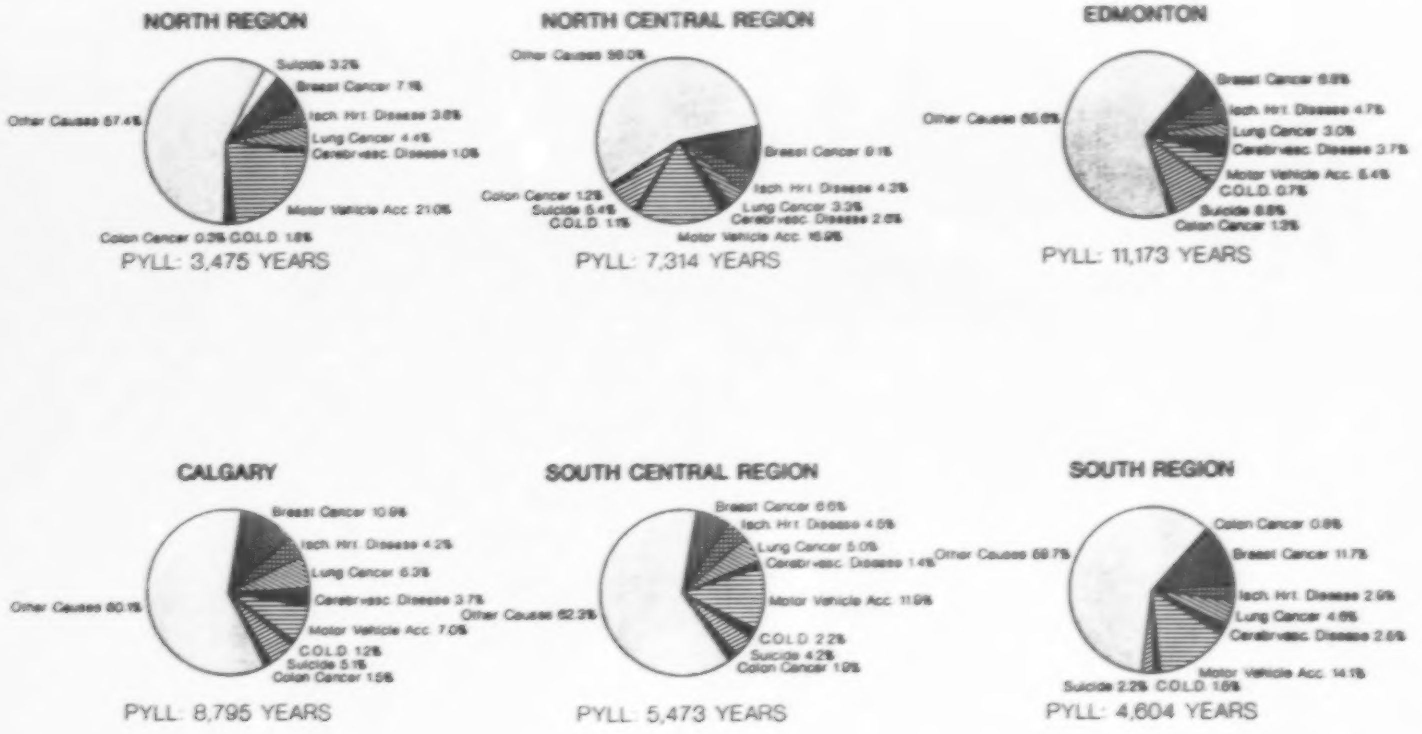
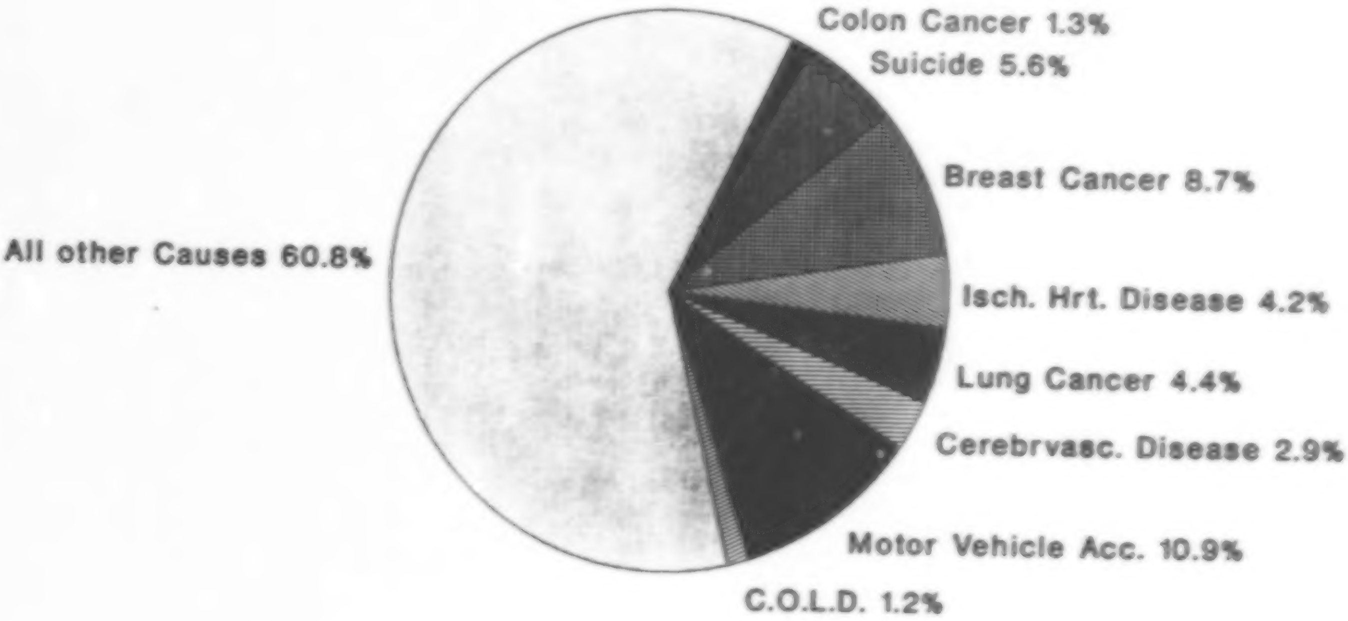


CHART 4.61

POTENTIAL YEARS OF LIFE LOST (PYLL): FEMALE, 1989

Percentage Distribution by Selected Preventable Causes

ALBERTA HEALTH UNIT TOTAL



PYLL: 41,041 YEARS

APPENDICES

APPENDIX A

METHOD OF POPULATION PROJECTION

In this appendix the method of health unit population projection used in the report is described. The statistics needed consist of: the 1986 health unit census (Federal) enumeration and the 1989 age and sex distributions of the Alberta population published by the Alberta Bureau of Statistics. It should be noted that the 1986 census exclude one or more incompletely enumerated Indian reserves or Indian settlements. All of these statistics are available through the Alberta Bureau of Statistics.

The method of projection simply scales the 1986 census population of each health unit, by age group and by sex, according to a factor which relates the 1986 population of Alberta to that of 1989 estimates.

For a given sex let $n_{ij}(86)$ equal the number of individuals in the i^{th} age group of the j^{th} health unit in 1986, and let $N_i(86)$ equal the number of individuals in the i^{th} age group in Alberta as a whole in 1986. For Chapter 1 and Chapter 2 there are eight age groups, and for Chapter 3 and Chapter 4 there are ten. The corresponding numbers for 1989 are $n_{ij}(89)$ and $N_i(89)$. The problem is to estimate $n_{ij}(89)$ from $n_{ij}(86)$, $N_i(86)$ and $N_i(89)$, and the problem is solved by:

$$f_i(86{,}89) \quad = \quad \frac{N_i(89)}{N_i(86)} \; .$$

Then $f_i(86{,}89)$ scales the 1986 Alberta population in the i^{th} age group to that of 1989 in the sense that $f_i(86{,}89)\ N_i(86) = N_i(89)$. The projected estimate of $n_{ij}(89)$ is then defined by

$$n_{ij}(89) \quad = \quad f_i(86{,}89)\ n_{ij}(86) \; .$$

Note that the same factor $f_i(86{,}89)$ is used for the i^{th} age group for all health units and so the assumption has been made that there has been a uniform rate of growth (or decline) common to all health units.

APPENDIX B

TECHNIQUES OF AGE STANDARDIZATION

In this section the standardization methods and statistical techniques used in the report are described. The discussion applies to both live birth rates and death rates of 1989. For concreteness the discussion will be phrased in terms of death rates.

As in Appendix A, let n_{ij} equal the individuals in the i^{th} age group of the jth health unit (for a given sex and year) and let d_{ij} be the corresponding number of deaths (for a given cause). Summing n_{ij} and d_{ij} over the index j (that is, over all health units) results in the number of individuals and deaths in the i^{th} age group in Alberta as a whole, denoted by N_i and d_j, respectively. The total number of Albertans and the total number of deaths are obtained by summing N_i and d_i over the index i, and will be denoted by N and d, respectively.

The death rate for the i^{th} age group and j^{th} health unit is defined by:

$$r_{ij} \quad = \quad \frac{d_{ij}}{n_{ij}} \; ,$$

and the corresponding rate for Alberta defined by

$$R_i \quad = \quad \frac{D_i}{N_i} \; ,$$

The standard error of r_{ij} may be estimated[8] by

$$SE(r_{ij}) = \quad \frac{d_{ij}^{1/2}}{n_{ij}} \; ,$$

and a 95% confidence interval constructed from

$$r_{ij} \quad \pm \quad 1.96\ SE(r_{ij}) \; .$$

Formulas are similarly defined for R_i in this report.

The age standardized death rate for the j^{th} health unit, standardized to the Alberta population, is defined by

$$sdr_j \quad = \quad \Sigma_i\, w_i\, r_{ij} \; ,$$

where;

$$w_i \quad = \quad \frac{N_i}{N} \; .$$

Consequently, sdr_j is a weighted average of age-specific death rates for the j^{th} health unit, where the weights W_i are determined by the Alberta age distribution.

The standard error of sdr_j is defined by

$$SE(sdrj) = (\Sigma_i [w_i \, SE(r_{ij})]^2)^{1/2} \quad .$$

Since age-standardization is according to the Alberta population, the age-standardized death rate for Alberta, given by

$$SDR = \Sigma_i \, w_i R_i \quad ,$$

simplifies to,

$$SDR = \frac{D}{N} \; ,$$

which is usually referred to as the crude death rate. From an earlier formula,

$$SE(SDR) = \frac{D^{1/2}}{N} \; .$$

A test of the hypothesis that the standardized rate for the jth health unit differs from the Alberta rate may be based on Z - statistic,

$$Z = \frac{sdr_j - SDR}{[SE(sdr_j)^2 + SE(SDR)^2]^{1/2}} \; .$$

For the (one-sided) hypothesis that sdr_j is greater than SDR, the test is significant (at the 5% level) if

$$Z \geq 1.64 \; .$$

NOTES

1. Birth and Death Statistics by Health Units of Alberta - 1988, Alberta Health, Health Economics & Statistics Branch, Policy & Planning Services Division, Edmonton.

2. Vital Statistics Annual Review, 1989.

3. Division Support Branch, Alberta Social Services and Community Health, 1983. A Study of the Methods of Reporting Vital Statistics and Communicable Diseases by Local Health Authority (unpublished document).

4. Birth and Death Statistics by Health Units of Alberta, 1983.

5. Ibid.

6. Diehr, R. 1984. Small Area Statistics: Large Statistical Problems. American Journal of Public Health 70: 313-314.

7. Demographic and Health Indicators, Statisitics Canada, Cat # 82-543E.

8. Cheng, C.L. 1984. The Life Table and Its Applications. Malagbar: Krieger.